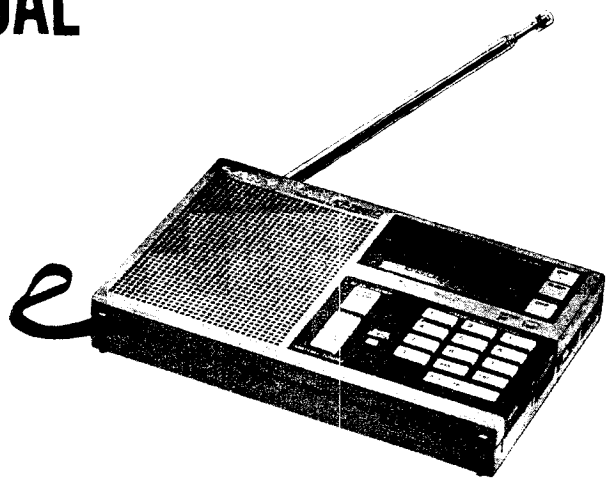
ICF-760D

SERVICE MANUAL

AEP Model
UK Model
E Model



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MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk

SPECIFICATIONS

Circuit system	FM: Superheterodyne AM: Dual conversion superheterodyne
Frequency range	FM: 87.6 – 108.0 MHz (FM Narrow) 76.0 – 108.0 MHz (FM Wide) MW: 522 – 1611 kHz SW: 1615 – 29995 kHz (AM Wide) 1615 – 26100 kHz (AM Narrow) LW: 153 – 519 kHz SSB/CW: 153 – 29995 kHz
Antennas	Telescopic antenna (FM/SW) Built-in ferrite bar antenna (MW/LW) External antenna terminal (FM/LW/MW/SW)
Speaker	Approx. 7.7 cm (3 1/8 inches) diameter
Power output	200 mW (at 10% harmonic distortion, for UK Model 400 mW (at 10% harmonic distortion, for AEP, E Model
Outputs	Recording output jack (minijack) output level 0.775 mV (–60 dB) output impedance 1 kilohm Earphone jack (minijack) for 8 ohm earphone
Power requirements	Radio: 6 V dc Four IEC designation R6 batteries (size AA) Supplied AC-240 ac power adaptor (110, 120, 220 or 240 V ac adjustable, 50/60 Hz) Optional DCC-127A or DCC-240 car battery cord for use with 12 V or 24 V car battery, respectively Computer back up/clock: 3 V dc, two IEC designation R6 batteries (size AA)
Battery life	Radio: approx. 12 hours of listening for four hours at a normal volume, using Sony SUM-3(NS) New Super batteries Computer back up/clock: approx. 1 year of continuous operation with Sony SUM-3 (NS) New Super batteries
Dimensions	Approx. 184.5×118.5×32 mm (w/h/d) (7 3/8×4 3/4×1 5/16 inches) including projecting parts and controls
Weight	Approx. 640 g (1.4 lb) including batteries

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

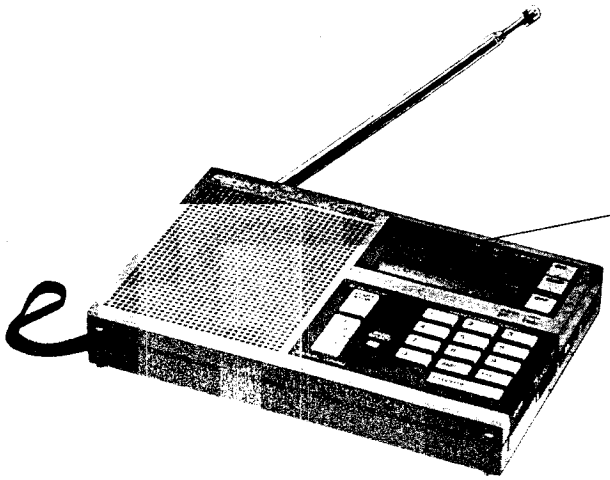
FM/LW/MW/SW PLL SYNTHESIZED RECEIVER

SONY®

MICROFILM

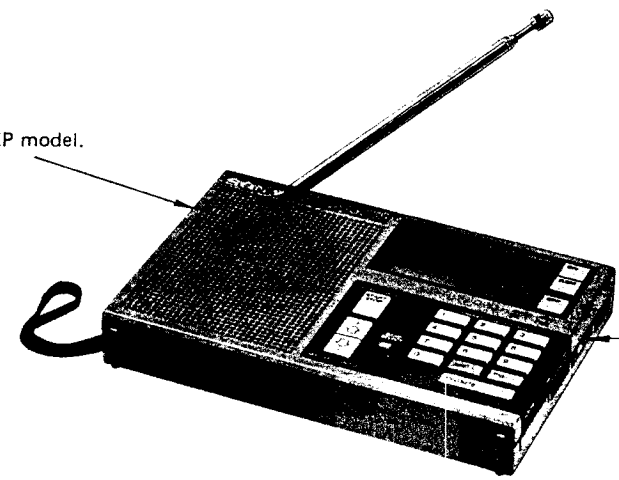
TR

- **Identification Of Each Model**



Indication of Frequency Range

AEP model UK model E model	:	FM 76-108 MHz LW/MW/SW 153-29,995 KHz
ME model	:	FM 87.6-108 MHz
G·AEP model		LW/MW/SW 153-26,100 KHz
French model	:	FM 87.6-108 MHz LW/MW/SW 153-29,995 KHz



EXT ANT
Not provided for G·AEP model.

SSB
Not provided for ME model.

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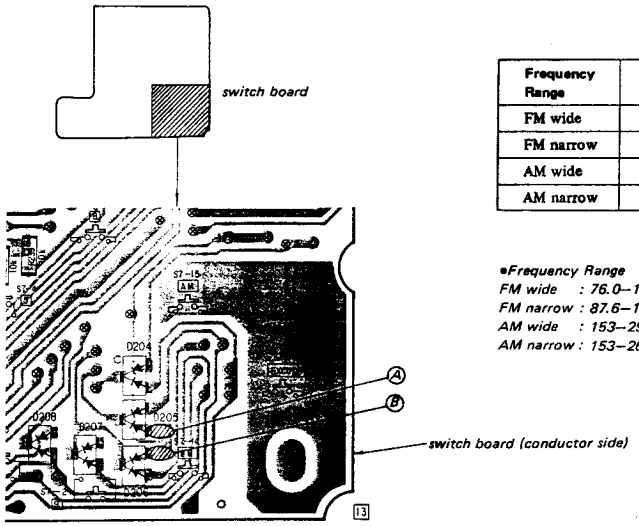
SERVICING NOTES

1. FREQUENCY RANGE ADJUSTMENT

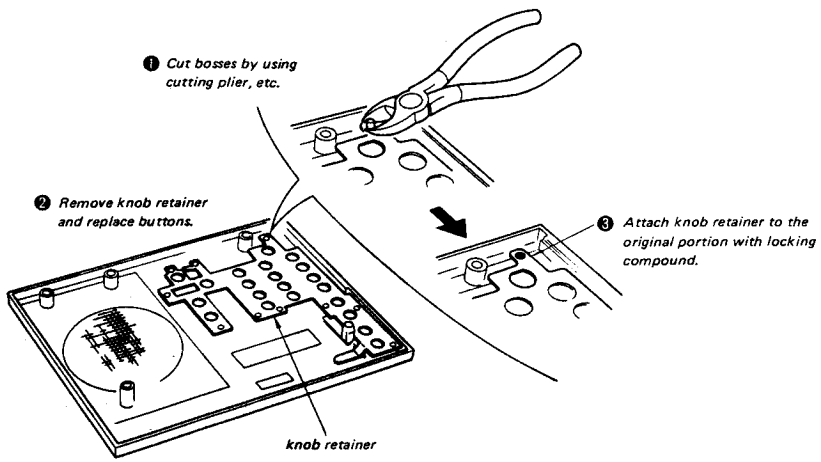
When replacing switch board, adjust frequency range by solder-bridging or opening adjustment patterns according to original patterns.



Frequency Range	Bridge Ⓐ	Bridge Ⓑ
FM wide	open	——
FM narrow	bridge	——
AM wide	——	open
AM narrow	——	bridge

•Frequency Range
FM wide : 76.0–108.0 MHz
FM narrow : 87.6–108.0 MHz
AM wide : 153–29,995 kHz
AM narrow : 153–26,100 kHz

2. BUTTONS REPLACEMENT


❶ Cut bosses by using cutting plier, etc.
❷ Remove knob retainer and replace buttons.
❸ Attach knob retainer to the original portion with locking compound.
knob retainer

3. MELF (Metal Electrodes Face-Bonding) Components

Warning

If MELF components are forcibly removed from the printed circuit board with pincers or pliers, the circuit board pattern is likely to peel away. Always remove MELF components according to the procedure described on the next page. Replace MELF components with the lead type components.

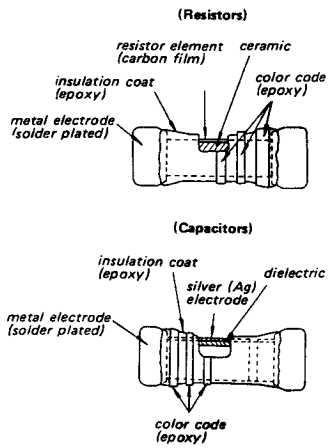
MELF components are soldered directly to the surface of the printed circuit board.

MELF resistors and capacitors have the same dimensions and are distinguished by their background colors: light brown for resistors, and pink or light green for capacitors.

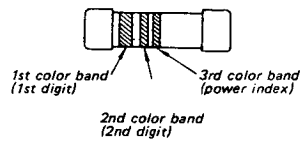
The MELF resistor color coding is the same as for conventional resistors, and MELF capacitor color coding is the same as for tube-type ceramic capacitors.

Components larger than resistors and without a color code are cross conductors, which are used instead of jumper wires.

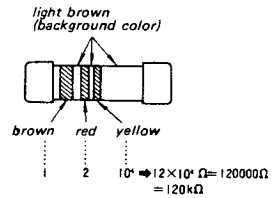
1. Structure



2. Color Code Reading



(Example of Resistor)



(Example of Capacitor)

background color { pink .....25 V voltage resistance
light green ....50 V voltage resistance

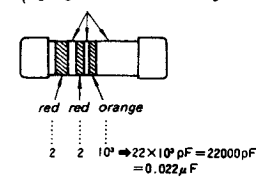


Fig. 2

Fig. 1

3. How to Remove MELF Components and Mount Replacements

Use a soldering iron of at least 40 W with an iron tip 4 mm in diameter and file the tip down to the angle shown in the diagram.

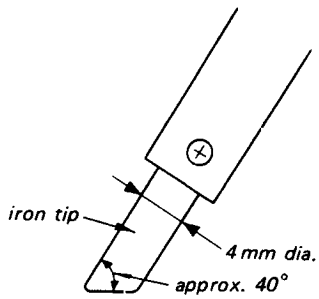


Fig. 3

1. Bring the flat surface of the soldering iron in equal contact with both soldered ends of the component.
2. The solder should melt in about 4 seconds. (The solder will melt more readily if a small amount of solder is attached to the iron tip and the iron tip is placed against the component.)
3. Once the solder has melted, tap the component aside with the tip of the soldering iron, and remove it from the board.

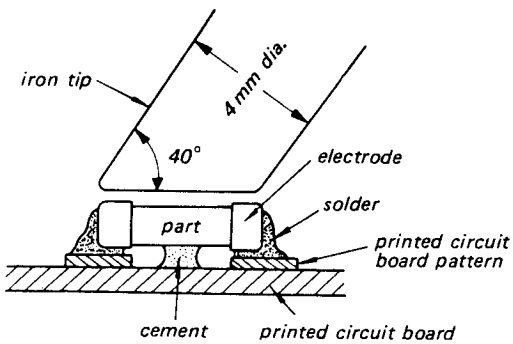


Fig. 4

4. Use lead type resistors to replace the MELF components.
   This replacement may be mounted with short leads (see Fig. 5).

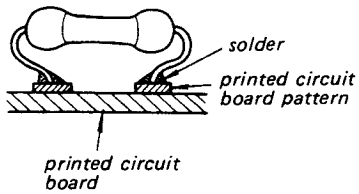


Fig. 5

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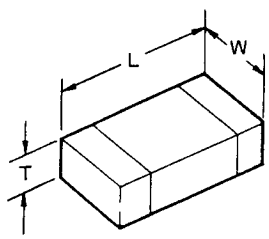
Note: Use 3216 type chip components to replace the MELF capacitor components.
See page 6 for mounting of chip components.

4. Chip components

Chip components include resistors, capacitors, transistors, diodes, coil and adjustable resistors.
In this section, the types of resistors, ceramic capacitors, transistors and diodes which are used most frequently will be described.
Dimension of transistors and capacitors



(Unit: mm)

Type	L	W	T
3216	3.2	1.6	0.45 ~ 0.6
2125	2.0	1.25	0.35 ~ 0.5

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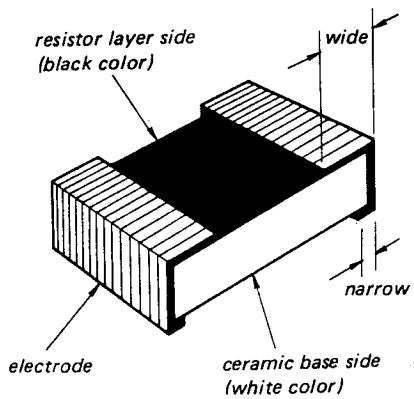
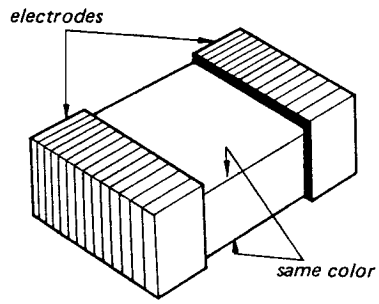
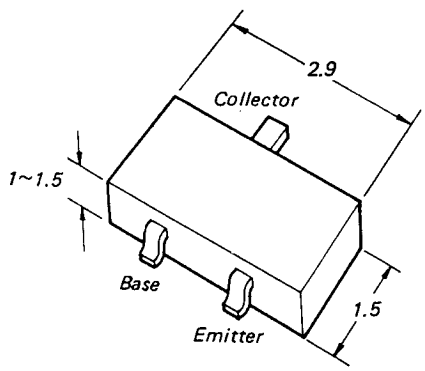
Identification



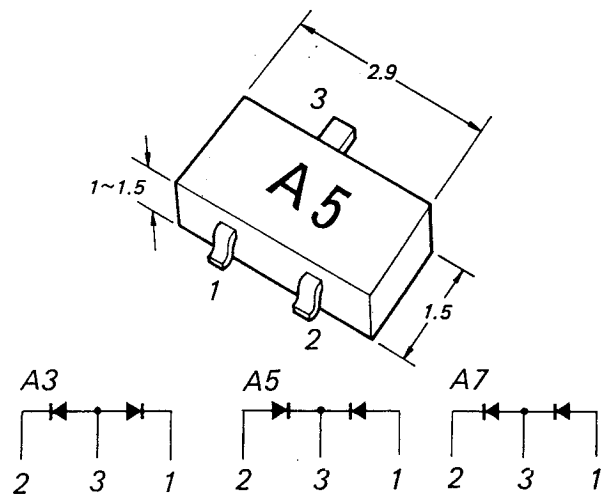
Resistor



Laminated Ceramic Capacitor



Transistor



Diode

Replacing chip components

All chip components should be connected and disconnected, using a tapered soldering iron [temperature of the iron tip: less than 280°C (536°F)], a pair of tweezers and braided wire.

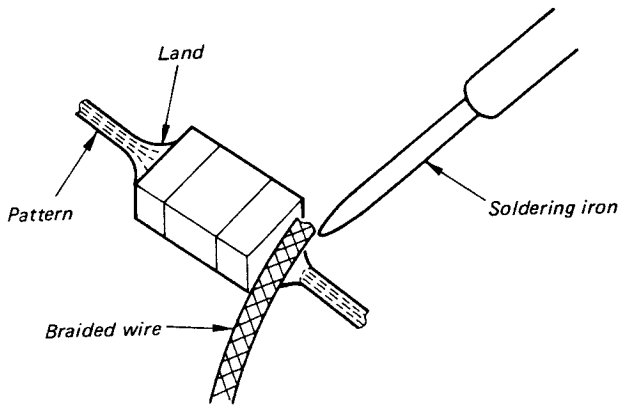
Precautions for replacement

1. Do not disconnect the chip component forcefully. Otherwise, the pattern may peel off.
2. Never re-use a disconnected chip component. Dispose of all old chip components.
3. To protect the chip component, heating time for attaching the component should be within 3 seconds.

○ Removing chip components

(1) Removing solder at electrode

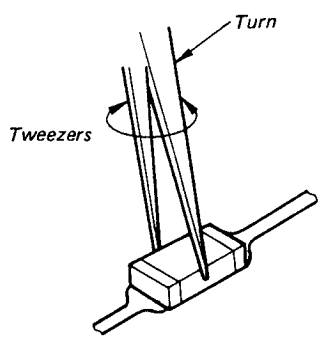
Remove the solder at the electrode, using a thin braided wire. Do not remove the solder of the part (chip component) attached adjacent to the electrode.



(2) Disconnecting chip components

Turn the tweezers with the soldering iron alternately applied to both electrodes, and the chip component will be disconnected. Take careful precautions while disconnecting, because if the chip component is forcefully removed the land may peel off.

Never re-use a disconnected chip component.



(3) Smoothing the soldered surface

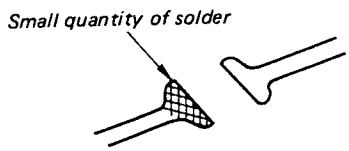
After disconnecting the chip component, remove the solder by using a braided wire to smooth the land surface.

○ Connecting chip components

The value of chip components is not displayed on the main body. Take due precautions to avoid mixing new chip components with other ones.

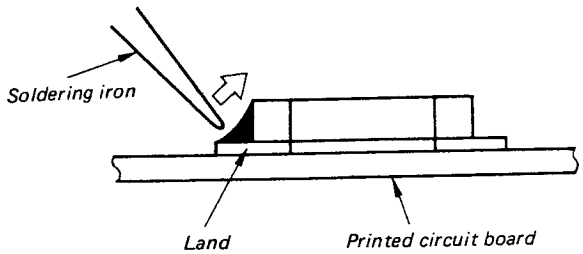
(1) Applying solder to land on one side

Apply a thin layer of solder to the land on one side where the chip component is to be connected. Too much solder may cause bridging.



(2) Speedy soldering

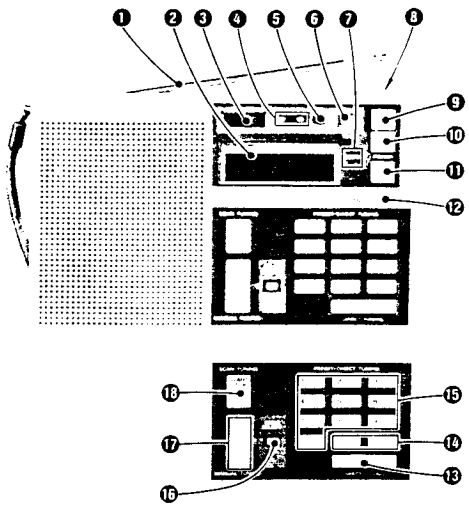
Hold the chip component at the desired position, using tweezers, and apply the soldering iron in the arrow-marked direction. To protect the chip component, heating time should be within 3 seconds.



(3) Speedy soldering of electrode on the other side

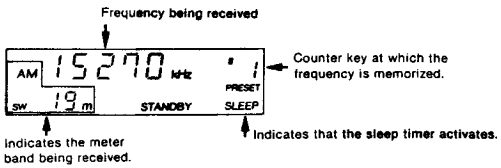
Solder the electrode on the other side in the same way as in (2) above.

LOCATION AND FUNCTION OF CONTROLS



❶ Telescopic antenna
Used for both FM and SW reception.

❷ Frequency display
Displayed as follows:



❸ Time display
Displayed by 24 hours.
The timer-setting time will be displayed when the SET button is pressed.

❹ Time adjust button
Press the H (hour) button and M (minute) button while pressing the TIME SET button to adjust the clock to the current time.

❺ SET (timer setting) button
Press the H button and M button while pressing the SET button to set the timer.

❻ STANDBY (timer standby) button
Press this button after setting the timer.

❼ TUNING indicator
The indicator illuminates when a signal is received.

❽ MAIN POWER switch
Set this switch to ON before pressing the ON button to turn on the radio.
Set it to OFF when carrying the radio.
With this switch at OFF, the power will not turned on even if the ON button is pressed accidentally.

❾ ON button
Press this button to turn the radio on.

❿ SLEEP timer button
Press this button to set the sleep timer.

⓫ OFF button
Press this button to turn the radio off.

⓬ ENTER key
Used to input a station to one of the counter keys for preset tuning.

⓭ EXECUTE key
After inputting your desired band and frequency, press this key to complete your tuning.

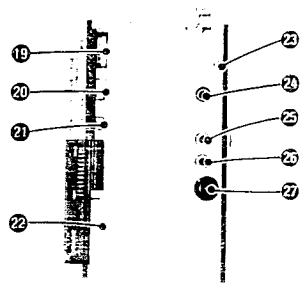
⓮ FM/AM key
Used to input a frequency for direct tuning.

⓯ Counter keys
Used to input a frequency. If you punch in a frequency with the numbered keys, the frequency will appear in the frequency display.

⓰ BAND SELECT key
Used with ⌃ (plus) key or ⌄ (minus) key to continuously search a broadcast band such as FM, LW, MW and SW, or to search the meter bands of SW.

⓱ ⌃ (plus)/ ⌄ (minus) key
Used with the BAND SELECT key to search the desired broadcast band and tune the frequency in correctly for manual tuning.
If you press ⌃ key or ⌄ once, the tuned frequency will be increased or decreased by the following intervals:
FM: 0.1 MHz MW: 10 kHz
LW: 3 kHz SW: 5 kHz
If you keep the key depressed, the frequency changes continuously.
The MW interval of 9 kHz is preset at the factory but you can change to the interval of 10kHz to match the MW frequency allocation system of the country where you will use the unit.

⓲ START/STOP key
If you press this key, the radio begins searching for a station, scanning the broadcast band of the frequency inputted by direct tuning or searched for by manual tuning. Scanning stops automatically for 1.5 seconds when a station is received. Press the START/STOP key again to stop the scanning.



⓳ FINE TUNING control
Adjust this control for better reception of LW, MW or SW.

⓴ AM MODE selector
NORM: Normally set the selector to this position.
FINE: Set to this position for better reception of LW, MW and SW and adjust the tuning with the FINE TUNING control.
SSB: For SSB/CW reception, set to this position and adjust the tuning with the FINE TUNING control.

㉑ TONE control
NEWS: For listening to news.
MUSIC: For listening to music.

㉒ VOLUME control

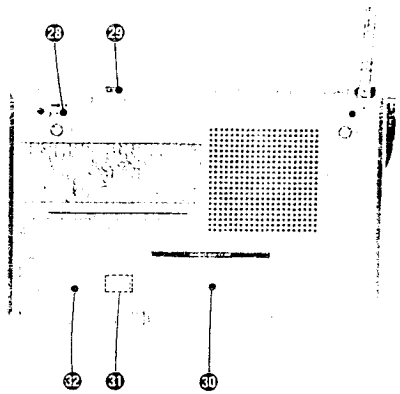
㉓ SENS (FM/AM sensitivity) selector
Normally set this selector to HIGH. Set it to LOW when the sound is distorted due to strong signals or when there is interference.

㉔ EXT ANT (external antenna) jack
Connect the supplied external antenna connector.

㉕ ⎓ Recording output jack
For recording radio programs with a tape recorder, connect the optional RK-69A connecting cord.

㉖ Earphone jack
For private listening with an earphone. When the earphone is plugged in, the speaker is automatically disconnected.

㉗ DC IN 6 V (external power input) jack
For operation from an external power source.



㉘ TIME SET button
Used with H and M button at the front to adjust the current time.

㉙ 12/24 hour selector
You can choose either 12 hour indication or 24 hour indication by switching this selector.

㉚ Radio battery compartment

㉛ 9 kHz/10 kHz selector (in the computer back up/clock battery compartment)
Set this selector according to the MW frequency allocation system of your country.

㉜ Computer back up/clock battery compartment

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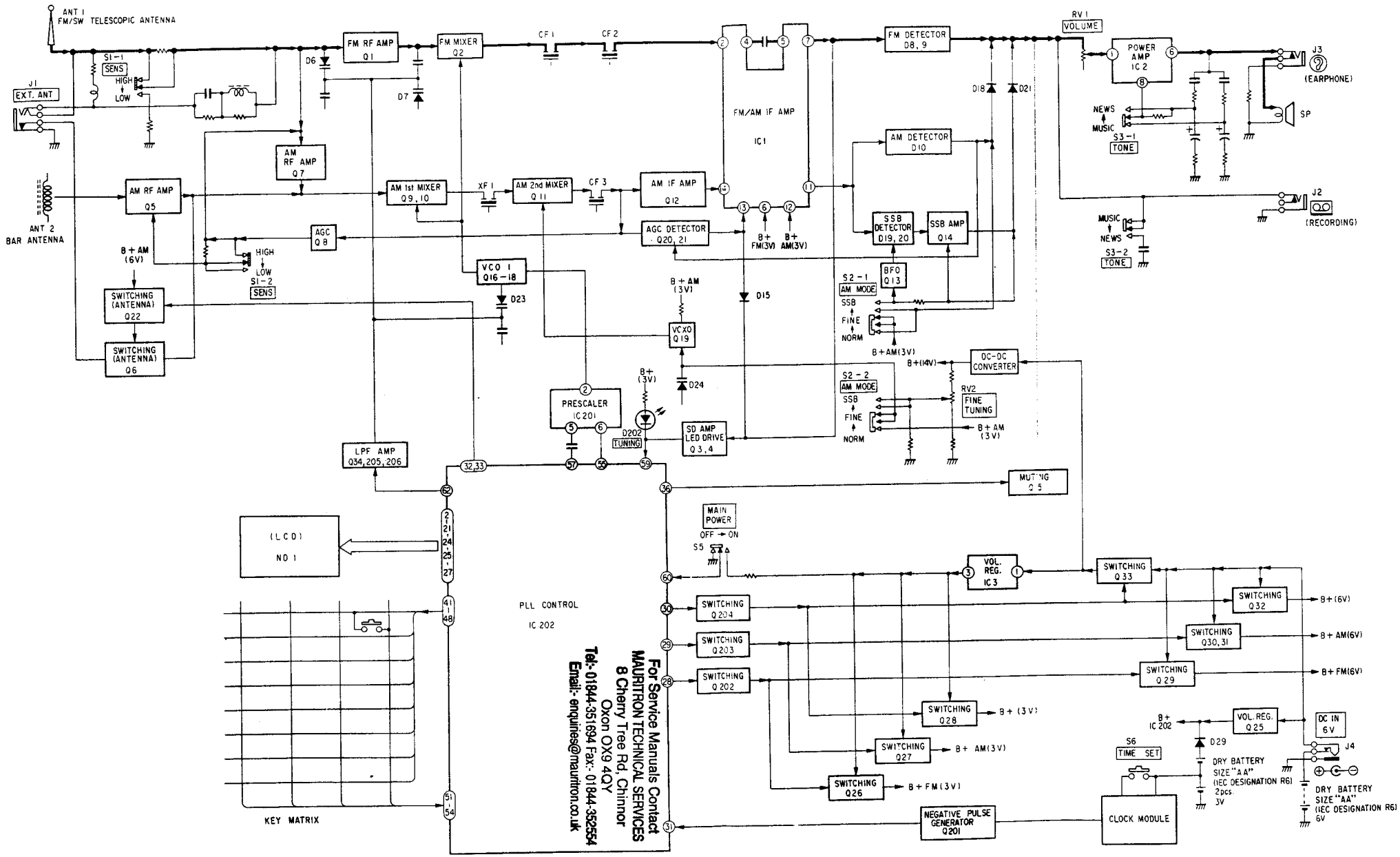
ICF-7600D

SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM



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MEMO

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●IC201's (PLL CONTROL IC μPD1706G-511) TERMINAL FUNCTIONS

Terminal No.	Terminal Name	Function	Terminal No.	Terminal Name	Function
1	–	This terminal is not used on this set.	32	$\overline{LW}$	Signal ouptut for antenna switching. LW mode: L otherwise: H
2	8a	Signal output for LCD segment.	33	$\overline{MW}$	Signal output for antenna switching. MW mode: L otherwise: H
3	7c		34, 35	–	These terminals are not used on this set.
4	7a		36	MUTE	Signal output for sound muting. mute:H otherwise:L
5	6a		37-40	–	These terminals are not used on this set.
6	5c		41	KS0	Signal output for key matrix scanning.
7	5b		42	KS1	
8	5a		43	KS2	
9	3b		44	KS3	
10	4c		45	KS4	
11	4b		46	KS5	
12	4a		47	KS6	
13	3a		48	KS7	
14	2c		49	XI	Clock pulse oscillating terminal.
15	2b		50	XO	
16	2a		51	K3	Signal input for key matrix scanning.
17	1c		52	K2	
18	1b		53	K1	
19	1a		54	K0	
20	7b		55	PSC	Signal output for prescaler control.
21	9a		56	–	This terminal is not used on this set.
22	VL	Signal output for LCD voltage check.	57	FM in	Signal input for swallow pulse.
23	VH		58	V_{DD}	Power supply terminal. (3V)
24	COM2	Signal output for LCD common.	59	$\overline{SD}$	Signal input for station detector. tuned: L detuned: H
25	COM1		60	CE	Signal input for chip enable.
26	V_{DD}	Power supply terminal. (3V)	61	–	This terminal is not used on this set.
27	COM0	Signal output for LCD common.	62	ER	Signal output for PLL error
28	FM	Signal output for FM power supply switching. FM mode: H otherwise: L	63	–	This terminal is not used on this set.
29	AM	Signal output for AM power supply switching. AM mode: H otherwise: L	64	GND	Ground terminal.
30	POWER OUT	Signal output for power supply switching. POWER ON: H otherwise:L			
31	$\overline{POWER}$ IN	Power turns on when negative pulse is applied to this terminal at the STANDBY mode.			

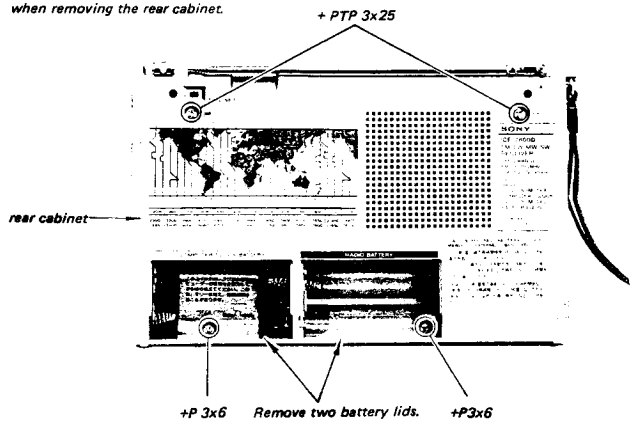
● KEY MATRIX

input / output	(51) K3	(52) K2	(53) K1	(54) K0
(41) KS0	———	———	———	9 kHz 10 kHz step frequency switch
(42) KS1	ENTER	BAND SELECT	———	———
(43) KS2	0 (10 key)	1 (10 key)	2 (10 key)	3 (10 key)
(44) KS3	———	FM	AM	EXECUTE
(45) KS4	———	▽ (down)	△ (up)	SCAN TUNING
(46) KS5	STANDBY	SLEEP	ON	OFF
(47) KS6	4 (10 key)	5 (10 key)	6 (10 key)	7 (10 key)
(48) KS7	8 (10 key)	9 (10 key)	———	———

● Follow the disassembly procedure in the numerical order given.

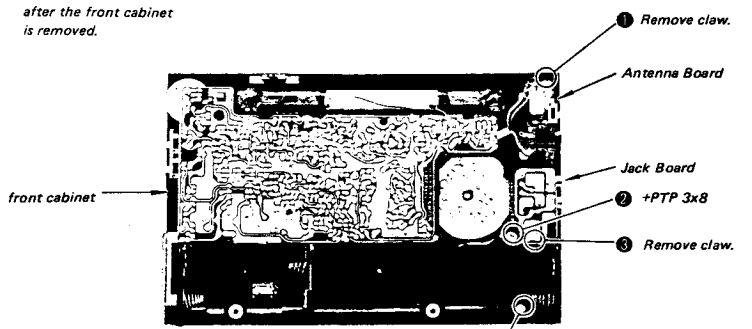
REAR CABINET

Note: Be careful not to break the lead wire of telescopic antenna when removing the rear cabinet.



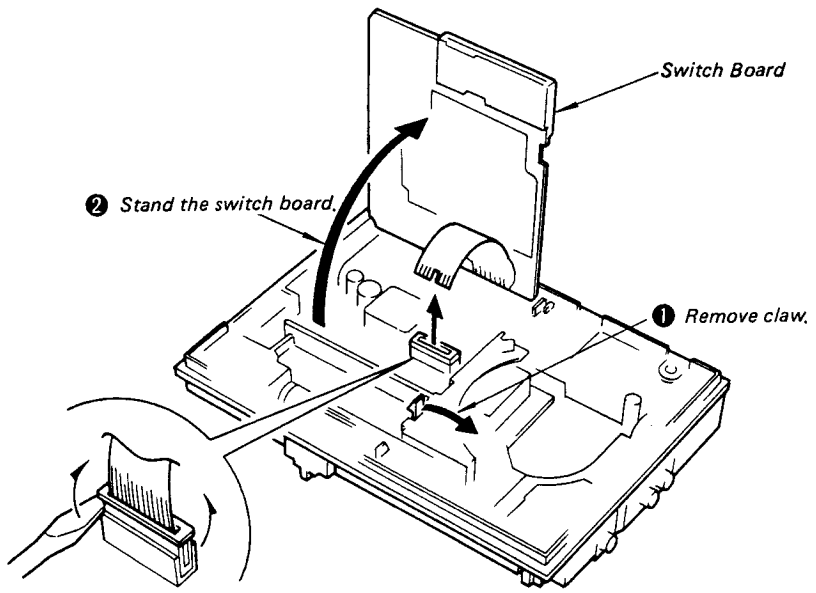
FRONT CABINET/ANTENNA BOARD/JACK BOARD

Note: Jack board should be removed after the front cabinet is removed.



❶ *+P 3x6*
Remove the screw and take out the front cabinet. Be careful not to break the lead wire of the speaker.

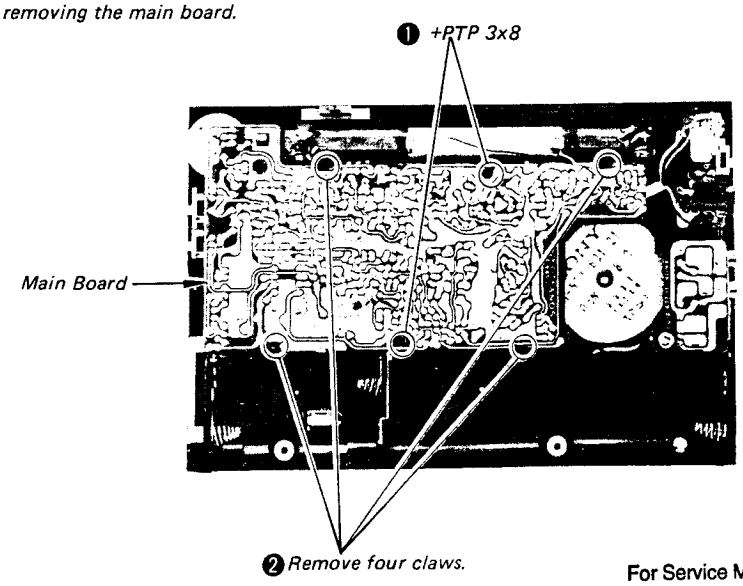
SWITCH BOARD



❸ *Unlock the connector with the screw-driver and take out the flexible board.*

MAIN BOARD

Note: Be careful not to break the lead wire when removing the main board.



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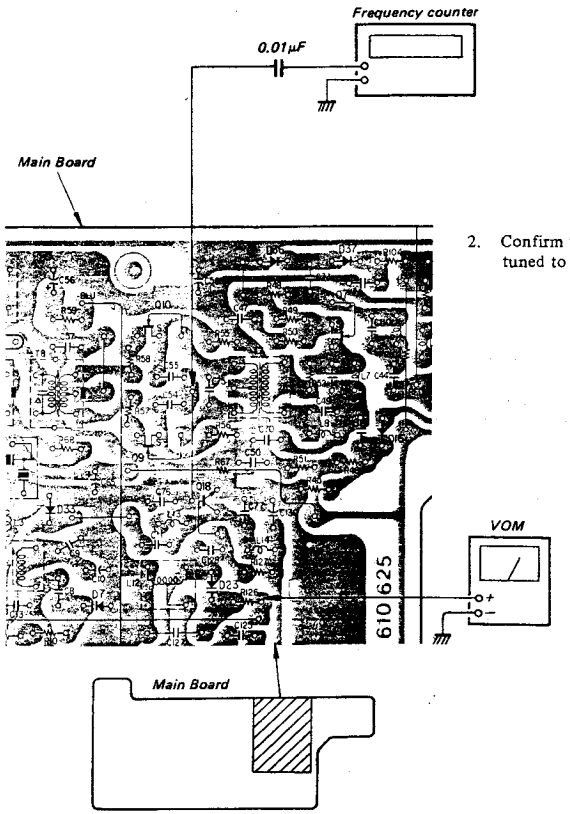
3-1. ELECTRICAL ADJUSTMENTS

PLL FREQUENCY/LPF OUTPUT LEVEL CHECK

1. Confirm the frequency counter reading is 100MHz when tuned to FM 89.3 MHz.



2. Confirm the 9-11V reading on VOM when tuned to FM 108 MHz.

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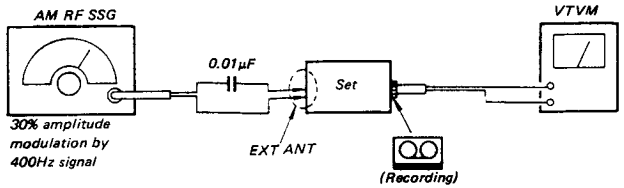
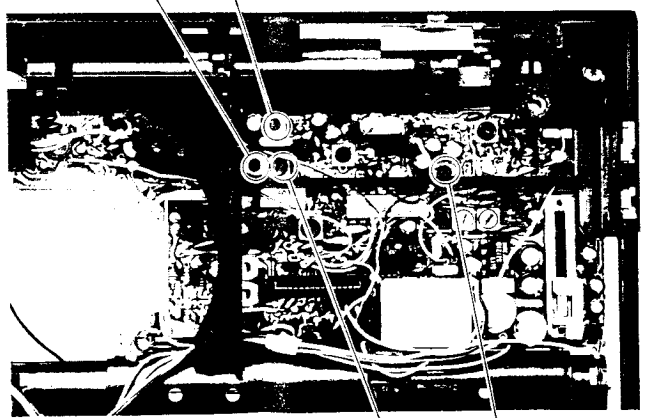
AM IF ALIGNMENT

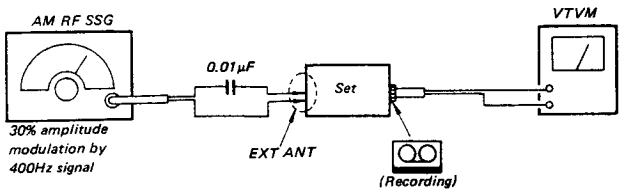


AM 1st IF ALIGNMENT	
Adjust for a maximum reading on VTVM.	
T8	L19

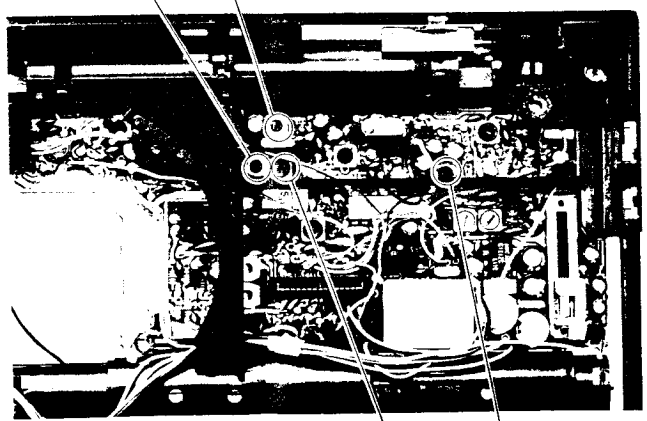


T9	T6
Adjust for a maximum reading on VTVM.	
AM 2nd IF ALIGNMENT	

AM IF ALIGNMENT



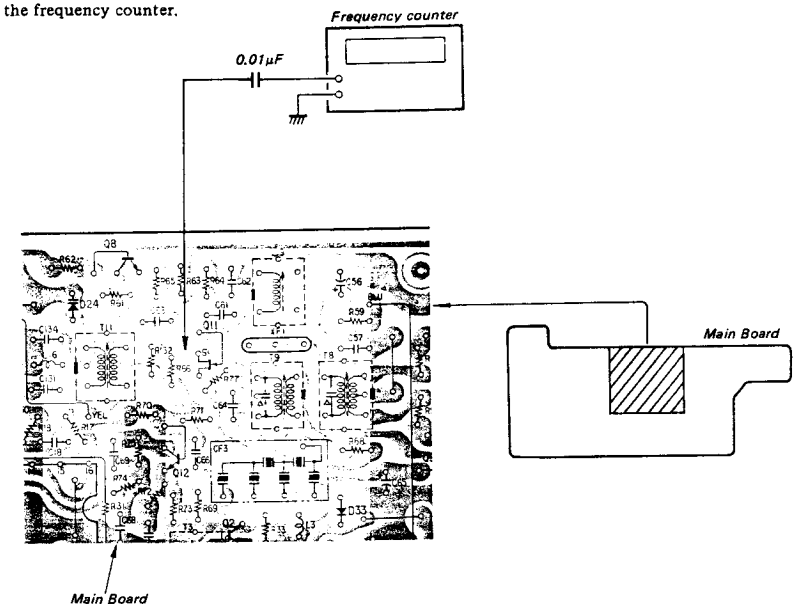
AM 1st IF ALIGNMENT	
Adjust for a maximum reading on VTVM.	
T8	L19

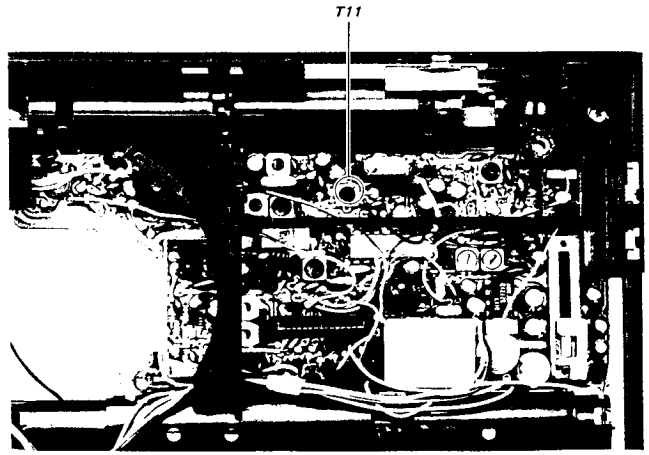


T9	T6
Adjust for a maximum reading on VTVM.	
AM 2nd IF ALIGNMENT	

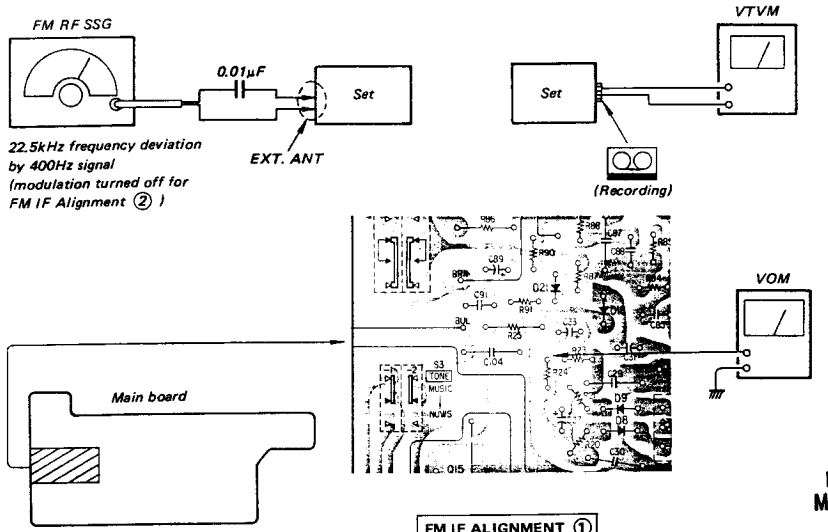
AM 2nd IF VCXO ADJUSTMENT

Adjust T11 for 55,395MHz reading on the frequency counter.

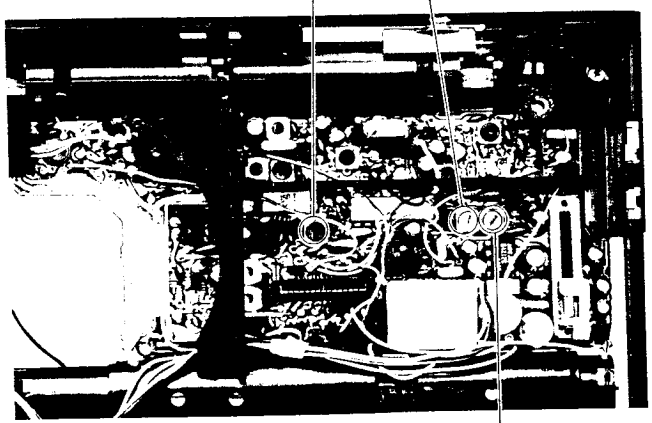




FM IF ALIGNMENT



FM IF ALIGNMENT ①	
Adjust for a maximum reading on VTVM.	
T3	T4



T5
Adjust for a 0V DC. reading on VOM.
FM IF ALIGNMENT ②

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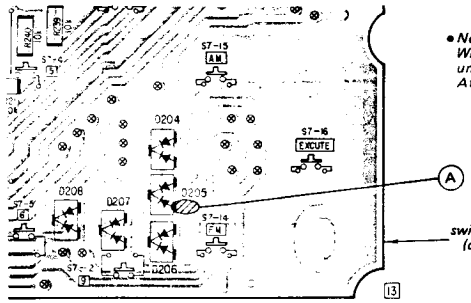
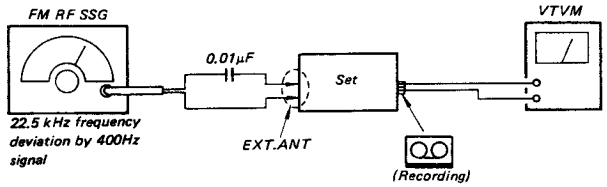
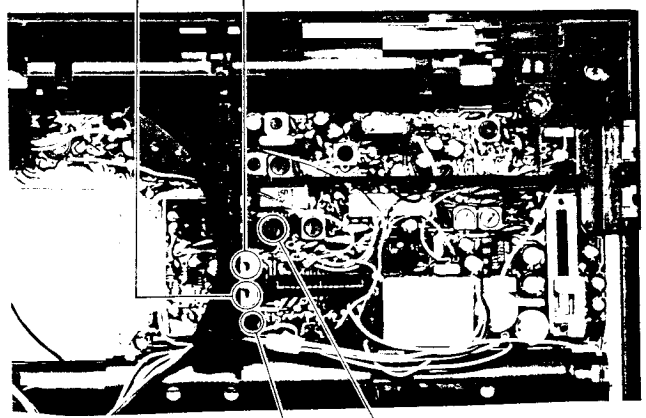
FM TRACKING ADJUSTMENT



• Note for FM narrow band set
When FM narrow band set is adjusted, unsolder the bridge Ⓐ.
After adjustment, solder the bridge Ⓐ.



FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
102 MHz	
CT1	CT2

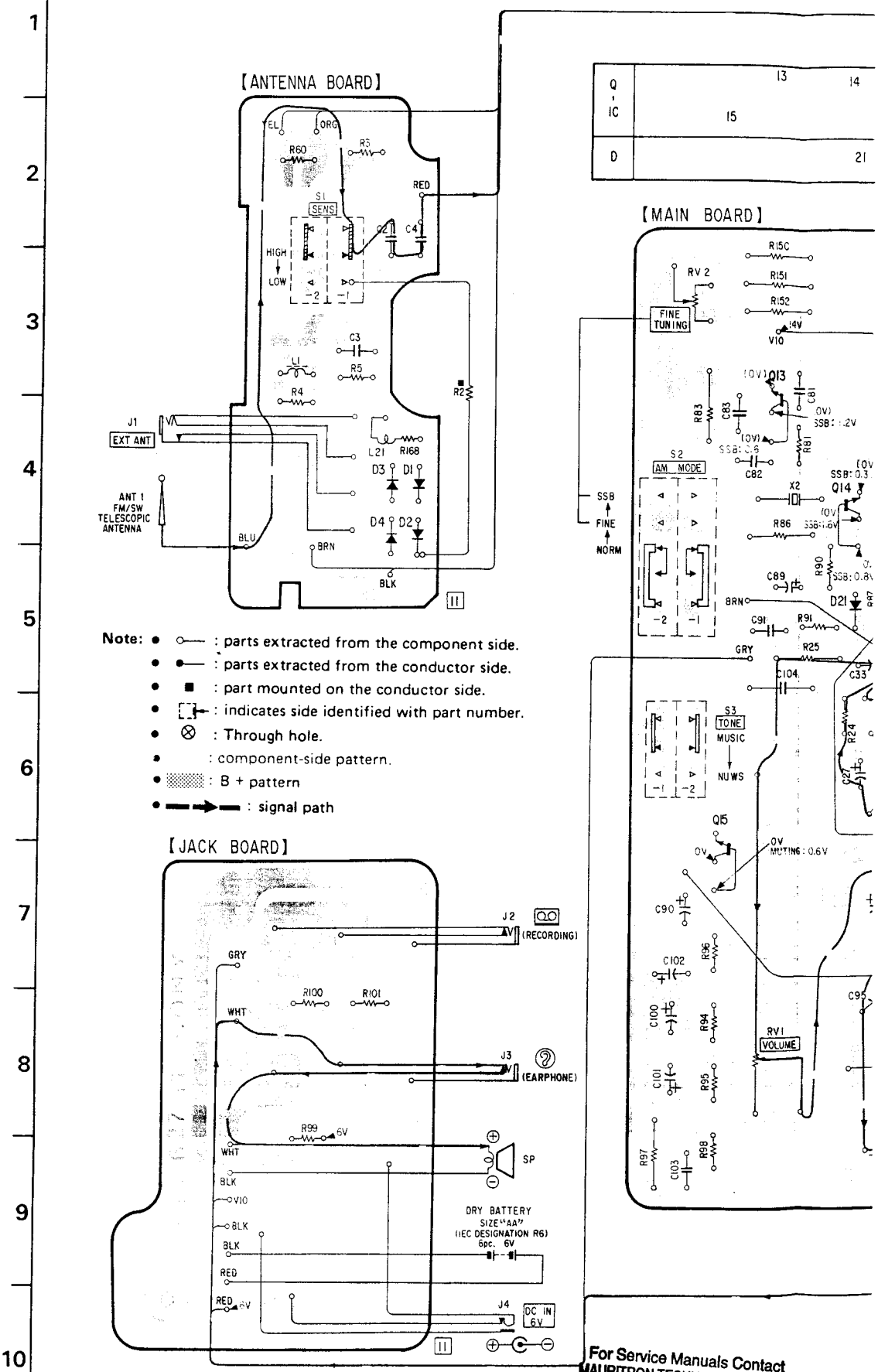


T1	L20
81 MHz	
Adjust for a maximum reading on VTVM.	
FM TRACKING ADJUSTMENT	

4-1. MOUNTING DIAGRAM

– Conductor Side –

· See page 38 for semiconductor lead layouts.



Note:

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- [ ]— : indicates side identified with part number.
- ⊗ : Through hole.
- : component-side pattern.
- : B + pattern
- : signal path

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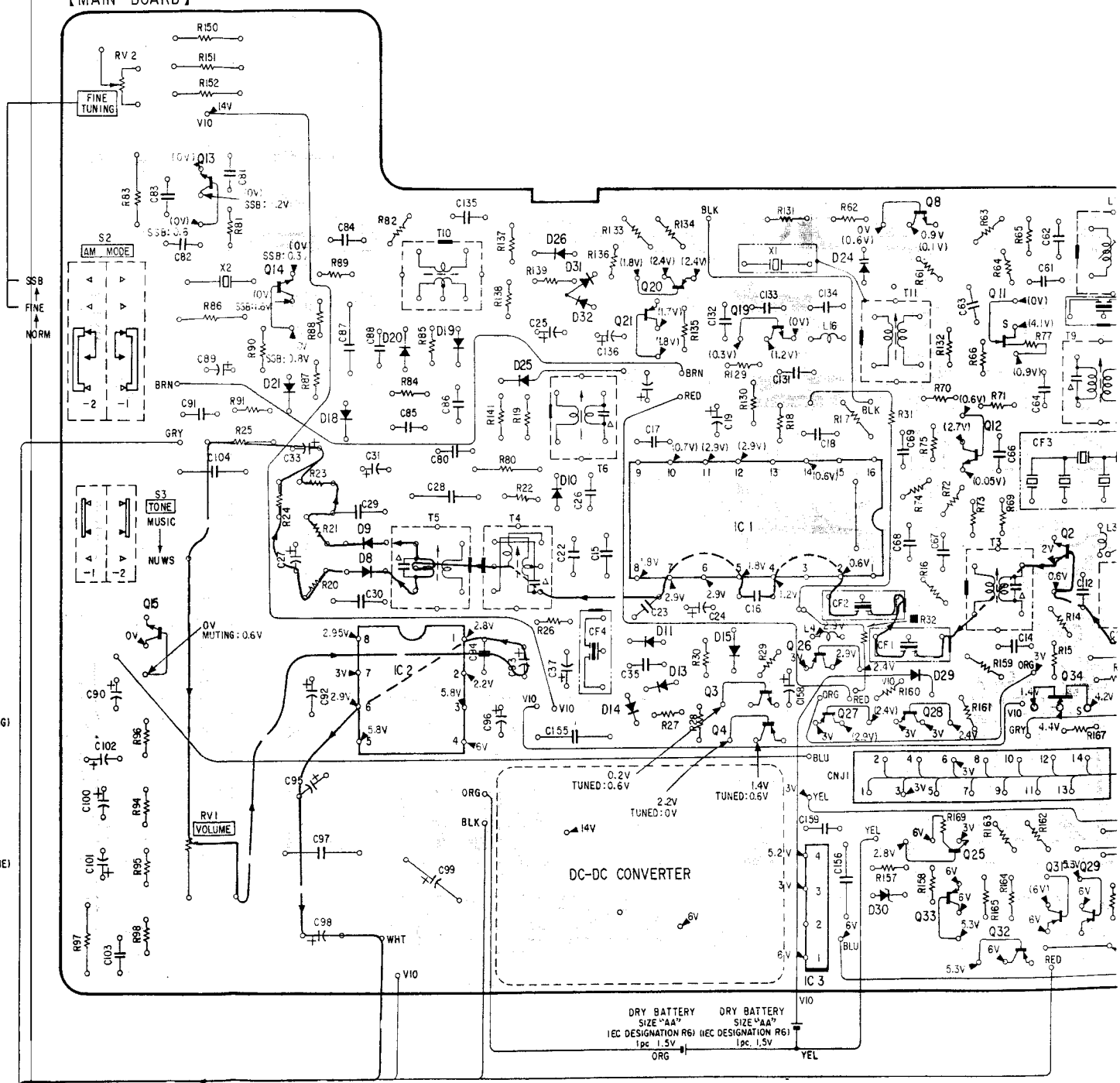
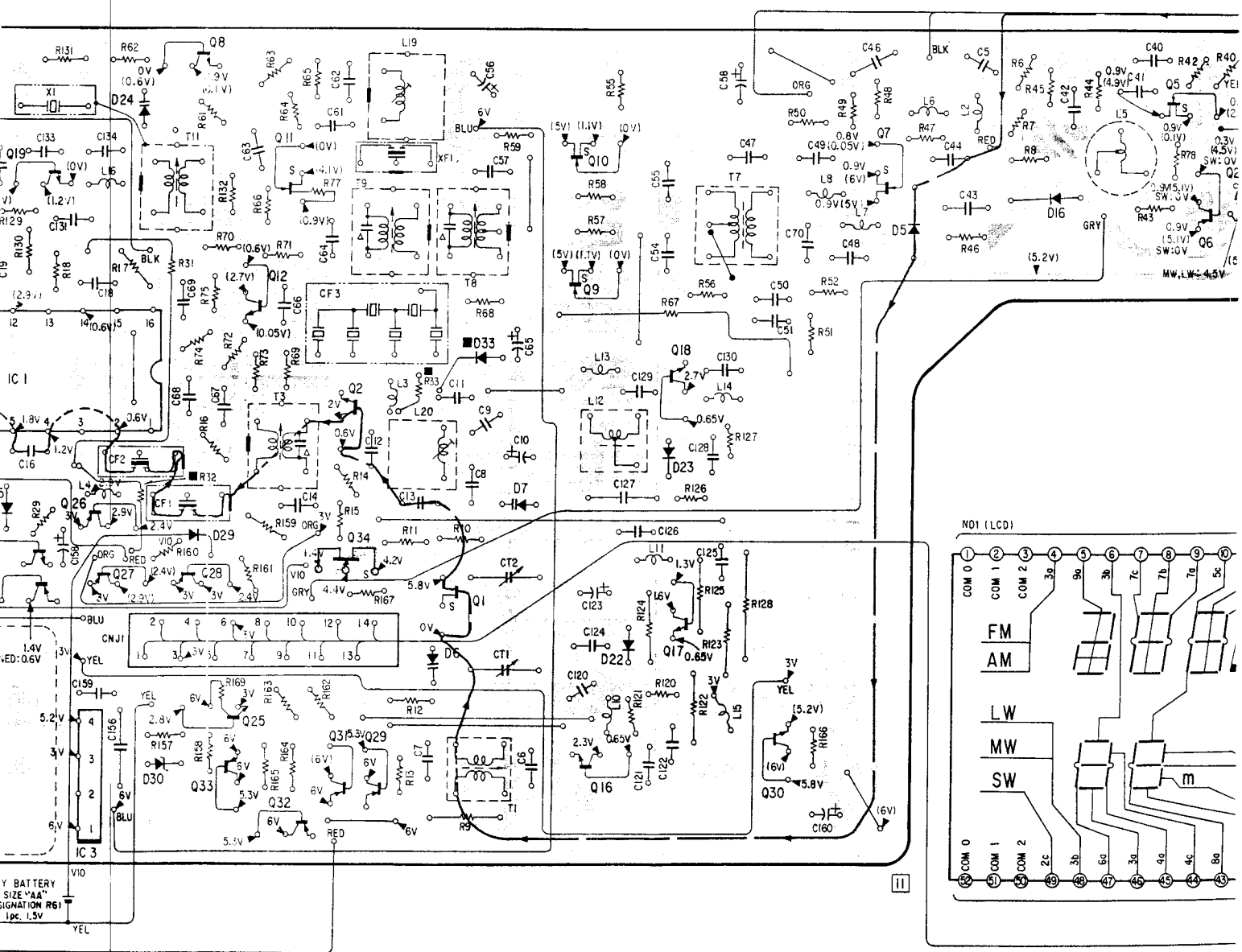
D | E | F | G | H | I | J | K

Q, IC	13	14	15	IC 2	21	20	19	IC 1 3,4	IC 3	26,27	8	12	11	2	34
											28 25	33	32	31	29
D	21	18	9,8	20	19	25	26 10	31 32	11 14	13	15	24	30	29	

【MAIN BOARD】





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P Q R S T U V W

7	5 6 22	Q IC
5	16	D

Q IC	201
D	202 201

【SWITCH BOARD】

ANT2
BAR ANTENNA

CLOCK MODULE

BLU WHT WHT BLK RED

ND1 (LCD)

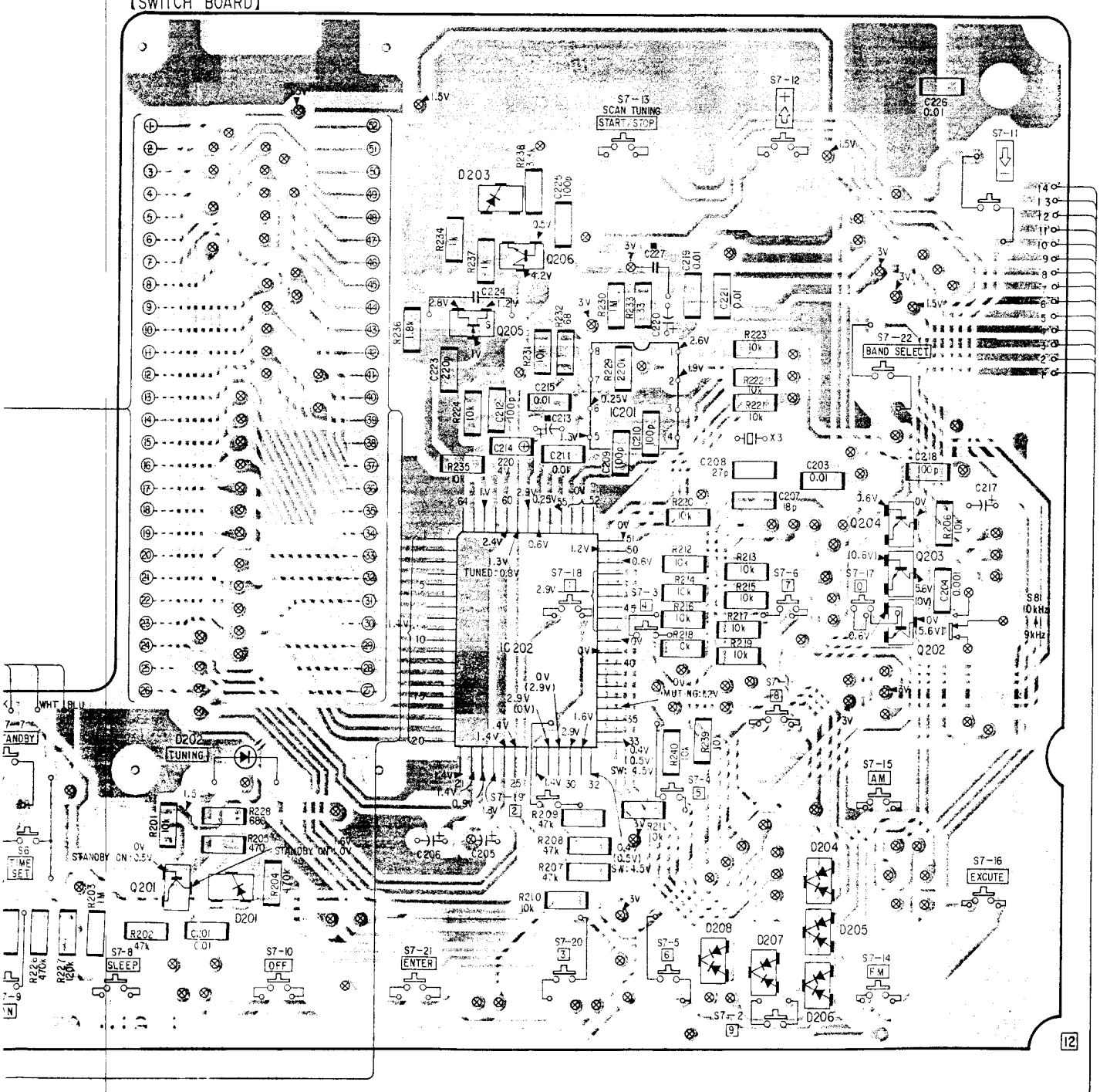
FM
AM
LW
MW
SW
MHz
KHz
TRY AGAIN
STANDBY
SLEEP
PRESET

S5 MAIN POWER
S7-7 STANDBY
S6 TIME SET
S7-8 SLEEP
S7-9 ON
S7-10 OFF
D202 TUNING
Q201
D201

V | W | X | Y | Z | A1 | B1 | C1

201 205 206 IC202 IC201 204 203 202	Q, IC
202 201 203 208 207 204 205 206	D

【SWITCH BOARD】



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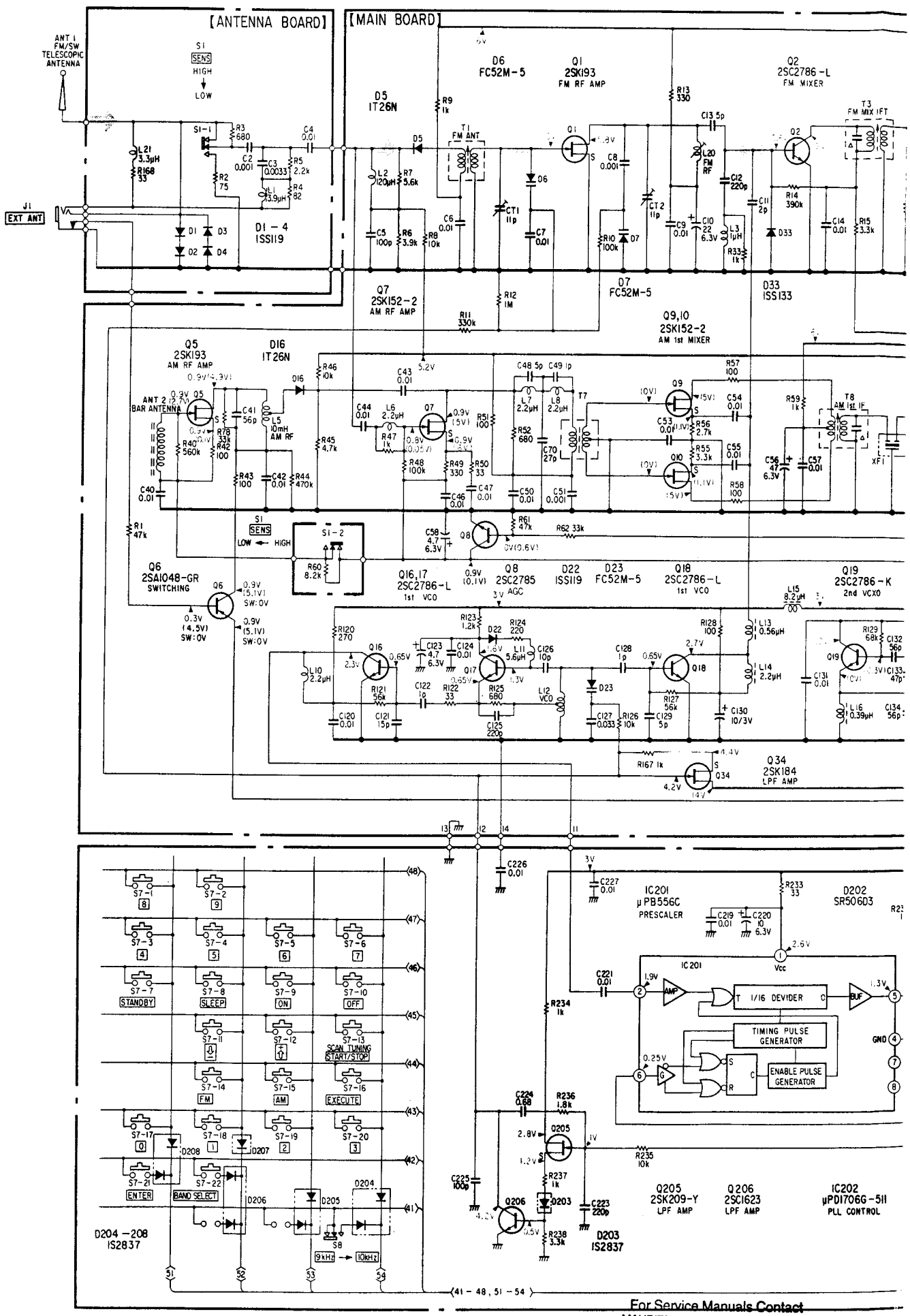

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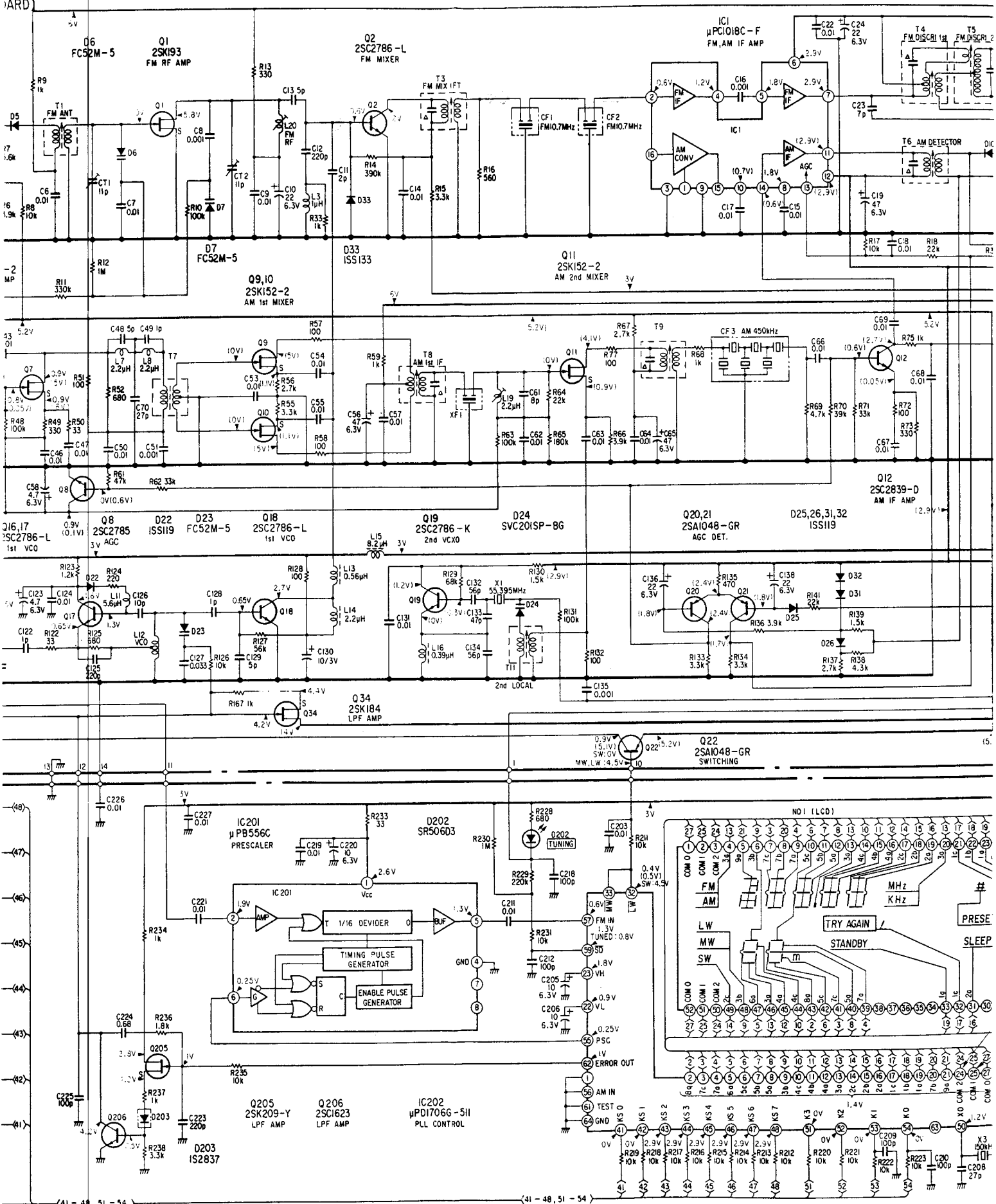
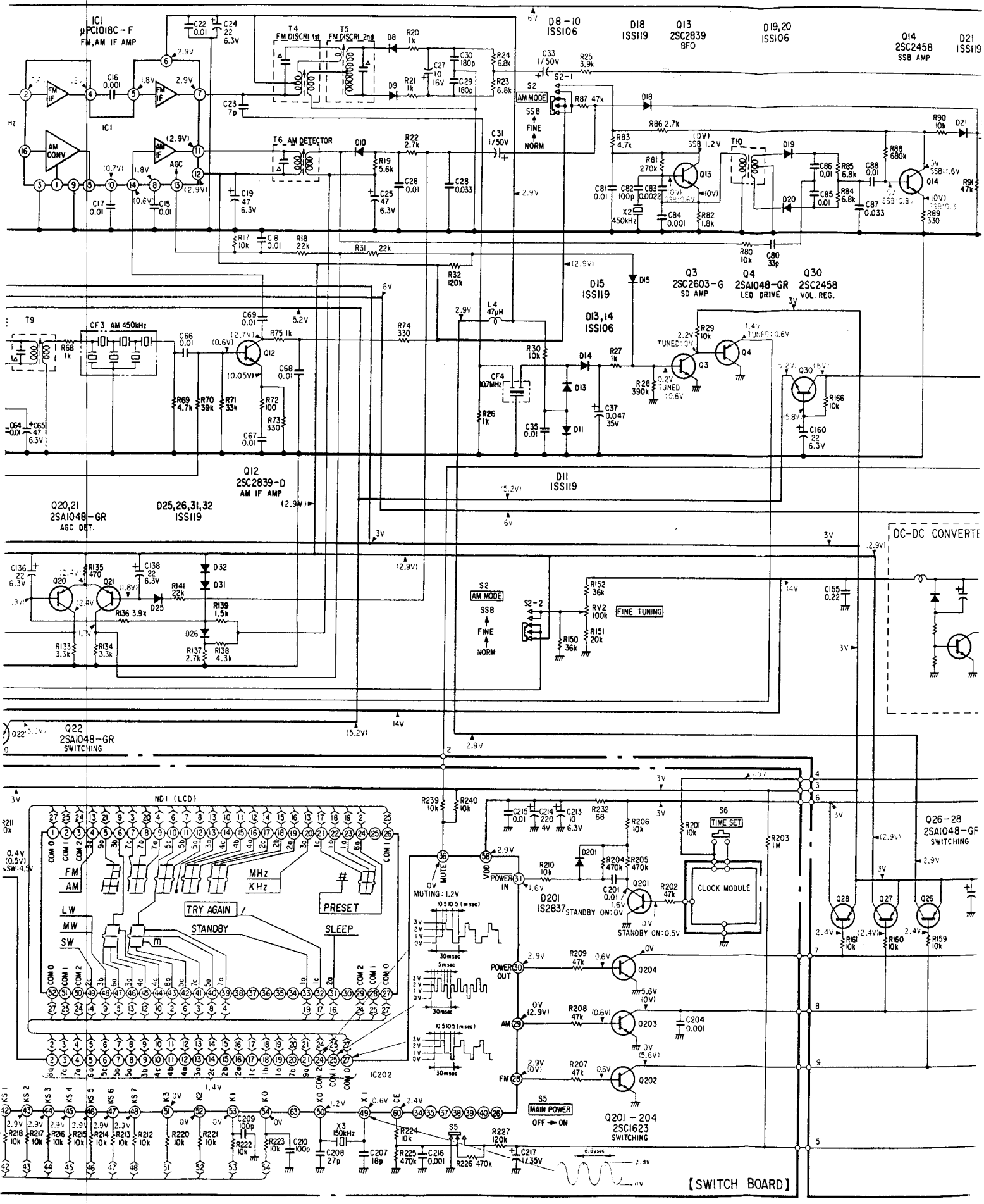

D6 FC52M-5
Q1 2SK193 FM RF AMP
Q2 2SC2786-L FM MIXER
IC1 μPC1018C-F FM,AM IF AMP
T3 FM MIX IFT
CF1 FM10.7MHz
CF2 FM10.7MHz
T4 FM DISCRI 1st
T5 FM DISCRI 2
T6 AM DETECTOR
D7 FC52M-5
D33 1SS133
Q11 2SK152-2 AM 2nd MIXER
Q9,10 2SK152-2 AM 1st MIXER
T8 AM 1st IF
CF3 AM 450kHz
Q12 2SC2839-D AM IF AMP
Q8 2SC2785
D22 1SS119
D23 FC52M-5
Q18 2SC2786-L 1st VCO
Q19 2SC2786-K 2nd VCXO
D24 SVC201SP-BG
Q20,21 2SA1048-GR AGC DET.
D25,26,31,32 1SS119
Q34 2SK184 LPF AMP
Q22 2SA1048-GR SWITCHING
IC201 μPB556C PRESCALER
D202 SR50603
D202 TUNING
IC201
T 1/16 DEVIDER
TIMING PULSE GENERATOR
ENABLE PULSE GENERATOR
Q205 2SK209-Y LPF AMP
Q206 2SC1623 LPF AMP
D203 1S2837
IC202 μPD17066-511 PLL CONTROL
ND1 (LCD)
FM
AM
LW
MW
SW
MHz
KHz
TRY AGAIN
STANDBY
SLEEP
PRESE
FM IN 1.3V TUNED: 0.8V
AM IN
TEST 0
GND
ERROR OUT
PSC
VH
VL
X3 150kHz
(41 - 48, 51 - 54)



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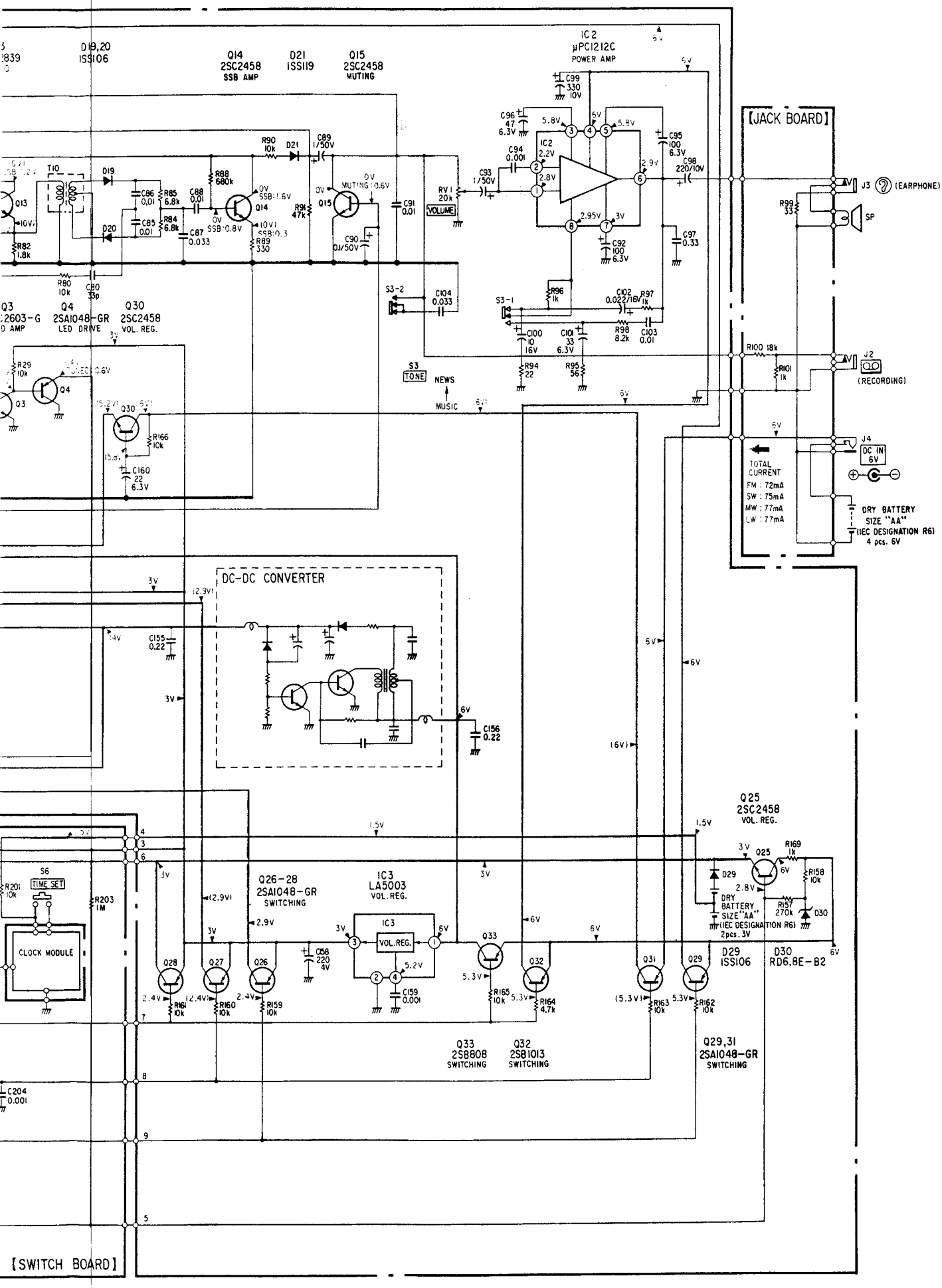
P Q R S T U V W


IC2
μPC1212C
POWER AMP
Q14
2SC2458
SSB AMP
D21
1SS119
Q15
2SC2458
MUTING
D19,20
1SS106
[JACK BOARD]
J3 (EARPHONE)
SP
J2
(RECORDING)
J4
DC IN
6V
TOTAL
CURRENT
FM : 72mA
SW : 75mA
MW : 77mA
LW : 77mA
DRY BATTERY
SIZE "AA"
(IEC DESIGNATION R6)
4 pcs. 6V
VOLUME
S3
TONE
NEWS
MUSIC
Q3
2SA1048-GR
LED DRIVE
Q4
2SC2603-G
AMP
Q30
2SC2458
VOL. REG.
DC-DC CONVERTER
Q25
2SC2458
VOL. REG.
D29
1SS106
D30
RD6.8E-B2
Q26-28
2SA1048-GR
SWITCHING
IC3
LA5003
VOL. REG.
Q33
2SB808
SWITCHING
Q32
2SB1013
SWITCHING
Q29,31
2SA1048-GR
SWITCHING
S6
TIME SET
CLOCK MODULE
[SWITCH BOARD]

NOTE FOR SCHEMATIC DIAGRAM

Note:
- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/6W unless otherwise noted. kΩ : 1000 Ω, MΩ : 1000 kΩ
- △ : internal component.
- ▭ : panel designation.
- ——: B+ bus.
- Readings are taken under no-signal (detuned) conditions with a VOM (50 kΩ/V).
  no mark : FM
  ( ) : AM
- Switch

Ref. No.	Switch	Position
S1	SENS	HIGH
S2	AM MODE	NORM
S3	TONE	MUSIC
S5	MAIN POWER	OFF
S6	TIME SET	OFF
S7– 1	8 (10 key)	OFF
S7– 2	9 (10 key)	OFF
S7– 3	4 (10 key)	OFF
S7– 4	5 (10 key)	OFF
S7– 5	6 (10 key)	OFF
S7– 6	7 (10 key)	OFF
S7– 7	STANDBY	OFF
S7– 8	SLEEP	OFF
S7– 9	ON	OFF
S7–10	OFF	OFF
S7–11	UP	OFF
S7–12	DOWN	OFF
S7–13	START/STOP	OFF
S7–14	FM	OFF
S7–15	AM	OFF
S7–16	EXECUTE	OFF
S7–17	0 (10 key)	OFF
S7–18	1 (10 key)	OFF
S7–19	2 (10 key)	OFF
S7–20	3 (10 key)	OFF
S7–21	ENTER	OFF
S7–22	BAND SELECT	OFF
S8	9kHz–10kHz	9kHz

- ⇒ : signal path

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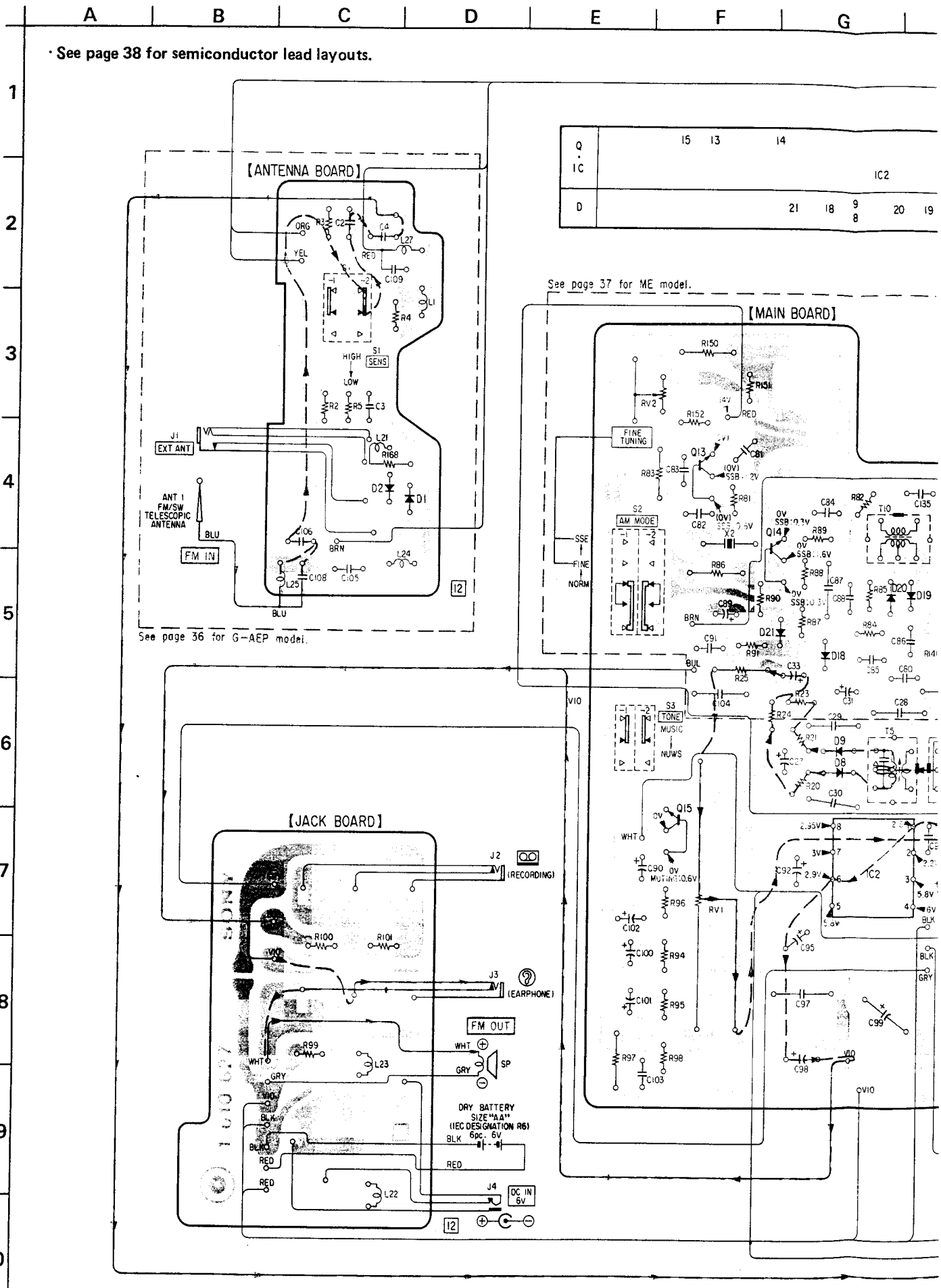
4-3. MOUNTING DIAGRAM

– Conductor Side –

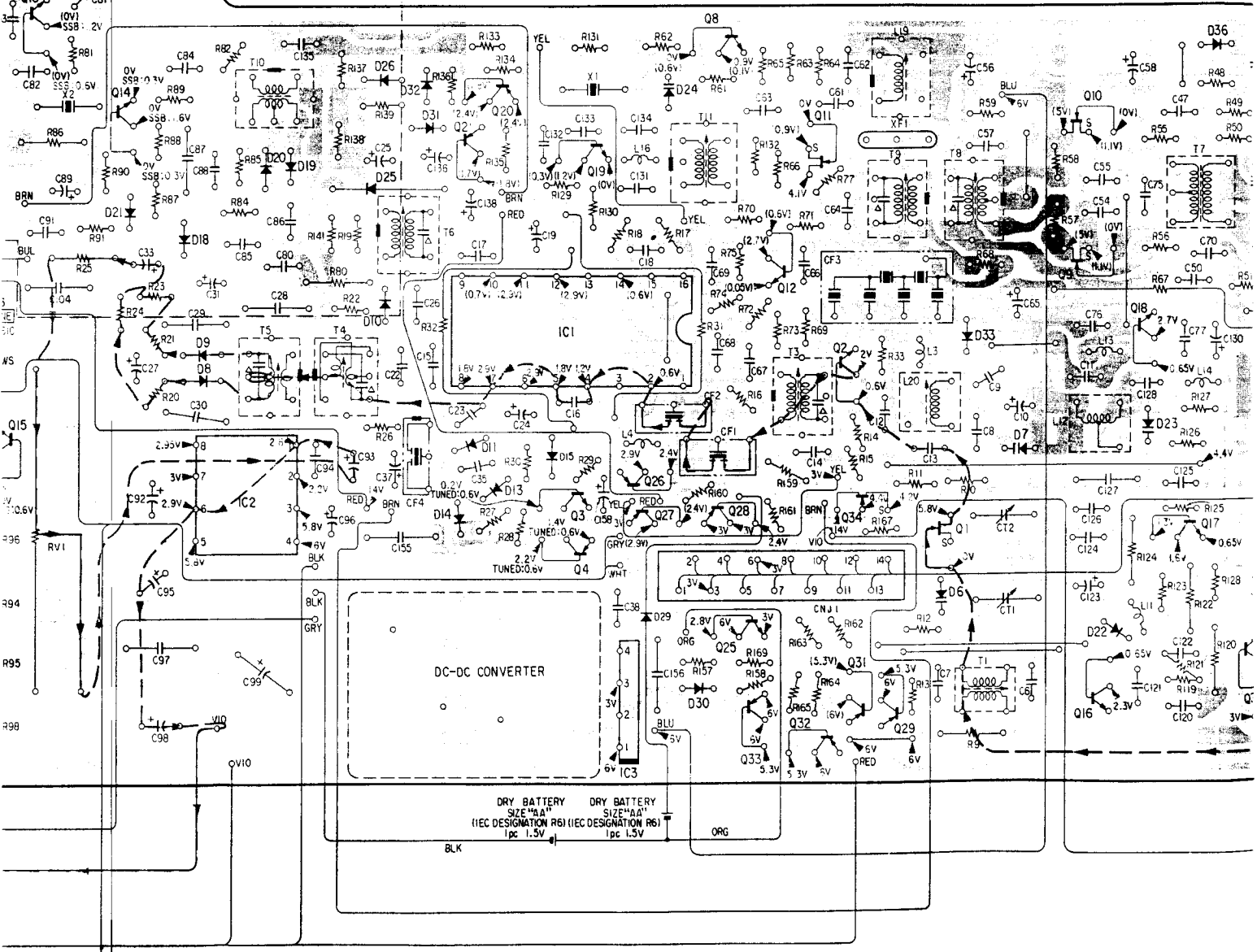


F G H I J K L M

15 13 14 IC2 21 20 19 3 4 IC1 26 27 IC3 8 28 25 33 12 11 32 2 34 31 29 1 10 9 16 18 17

21 18 9 8 20 19 26 25 32 31 11 14 13 24 30 6 33 7 22 23 36

[MAIN BOARD]



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| | | |

R S T U V W X Y

Q IC 201 205 206 IC202

D 201 202 203

ANT2
BAR ANTENNA

Note: ● ○— : parts extracted from the component side.
● ●— : parts extracted from the conductor side.
● ■ : part mounted on the conductor side.
● : indicates side identified with part number.
● ⊗ : Through hole.
● : B + pattern
● : signal path

【SWITCH BOARD】

CLOCK MODULE

BLU WHT WHT BLK RED

RED BLK WHT BLU

MHz
KHz
#
PRESET
TRY AGAIN !
STANDBY
SLEEP

S5 MAIN POWER
S7-7 STANDBY
S6 TIME SET
S7-9 ON
S7-8 SLEEP
S7-10 OFF
S7-18
S7-21 ENTER
S7-20

D202 TUNING
D203
Q201
Q205
Q206
IC 202

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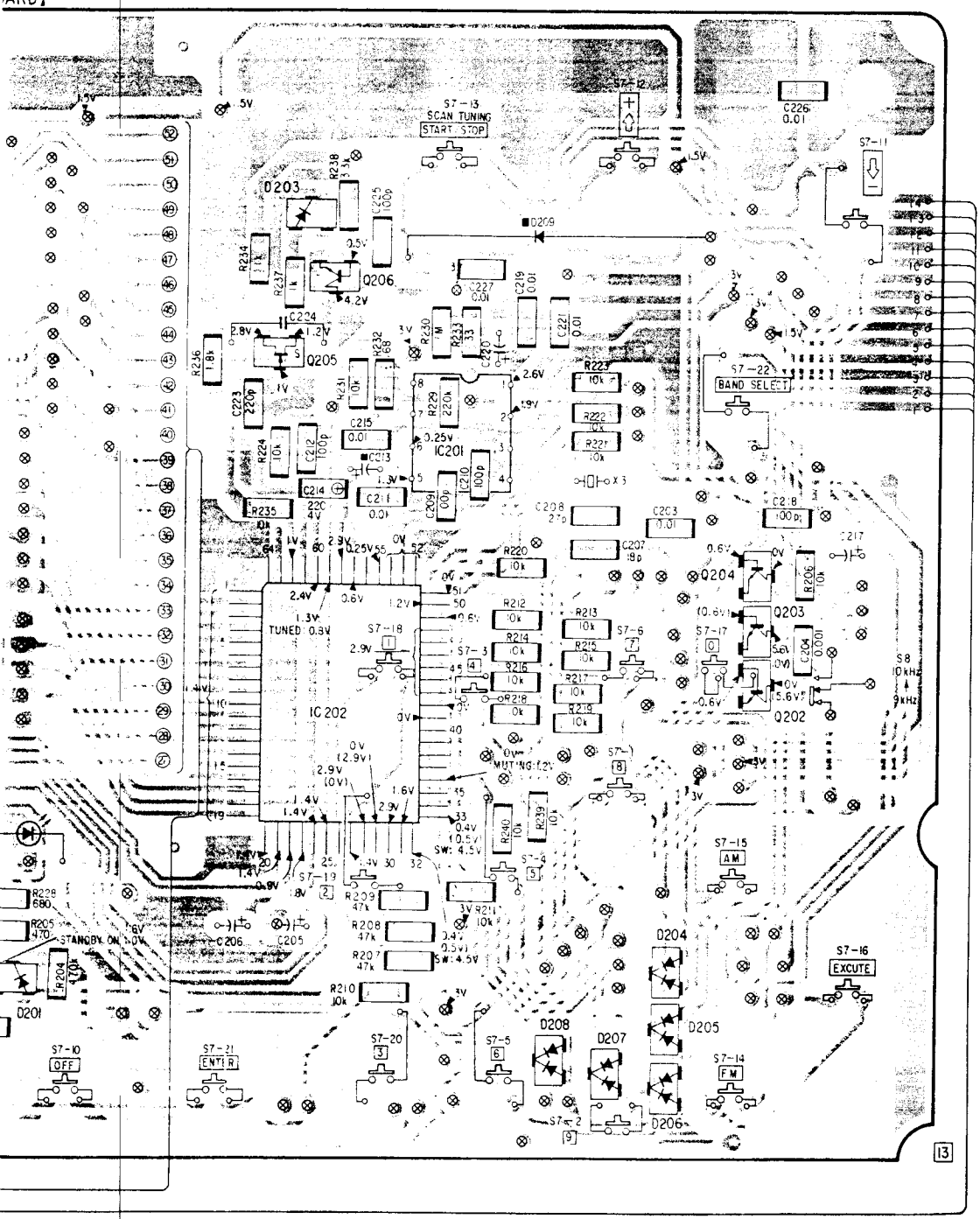
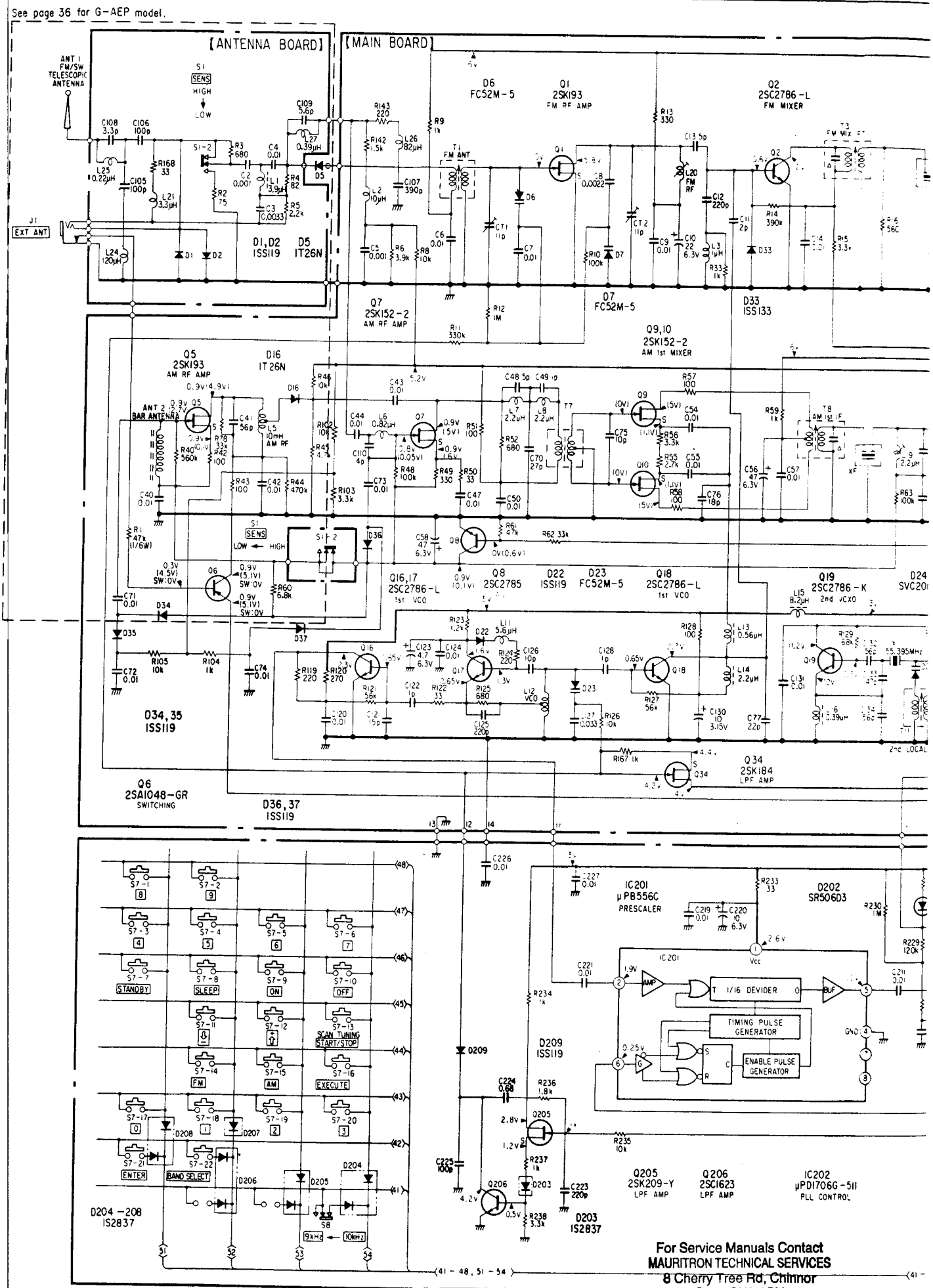
W | X | Y | Z | A1 | B1 | C1 | D1 | E

205 206 IC202 IC201 204 203 202 Q IC

202 203 204 205 206 208 207 D

ARD]




See page 36 for G-AEP model.
[ANTENNA BOARD]
[MAIN BOARD]
ANT 1 FM/SW TELESCOPIC ANTENNA
EXT ANT
ANT 2 BAR ANTENNA
D1,D2 ISS119
D5 IT26N
D6 FC52M-5
Q1 2SK193 FM RF AMP
Q2 2SC2786-L FM MIXER
D7 FC52M-5
D33 ISS133
Q7 2SK152-2 AM RF AMP
Q9,10 2SK152-2 AM 1st MIXER
Q5 2SK193 AM RF AMP
D16 IT26N
Q16,17 2SC2786-L 1st VCO
Q8 2SC2785
D22 ISS119
D23 FC52M-5
Q18 2SC2786-L 1st VCO
Q19 2SC2786-K 2nd VCXO
D24 SVC201
Q6 2SA1048-GR SWITCHING
D34,35 ISS119
D36,37 ISS119
Q34 2SK184 LPF AMP
IC201 μPB556C PRESCALER
D202 SR50603
TIMING PULSE GENERATOR
ENABLE PULSE GENERATOR
D209 ISS119
Q205 2SK209-Y LPF AMP
Q206 2SC1623 LPF AMP
IC202 μPD1706G-511 PLL CONTROL
D203 IS2837
D204-208 IS2837
STANDBY
SLEEP
ON
OFF
SCAN TUNING START/STOP
FM
AM
EXECUTE
ENTER
BAND SELECT
9kHz
10kHz
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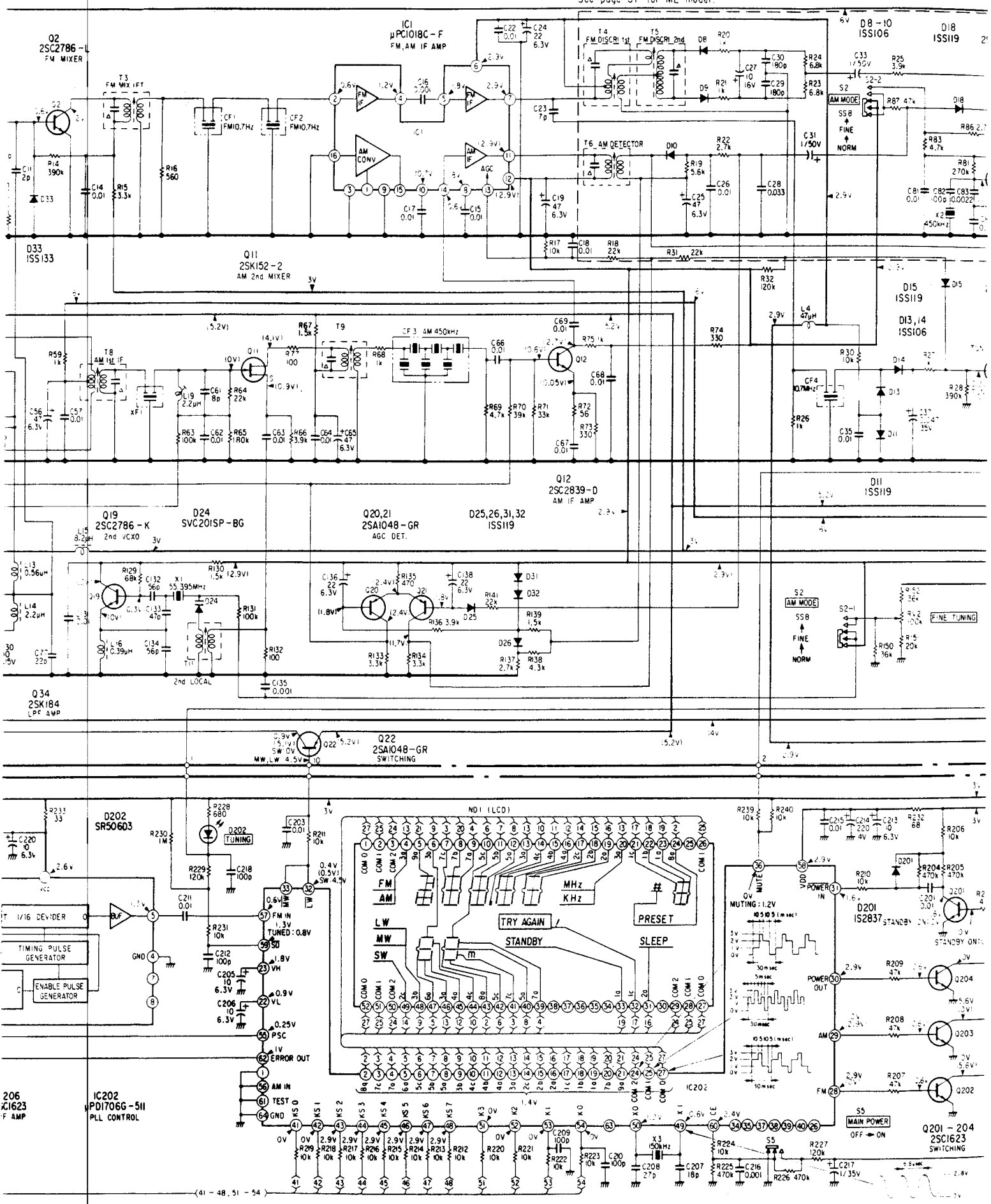
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk

G H I J K L M N

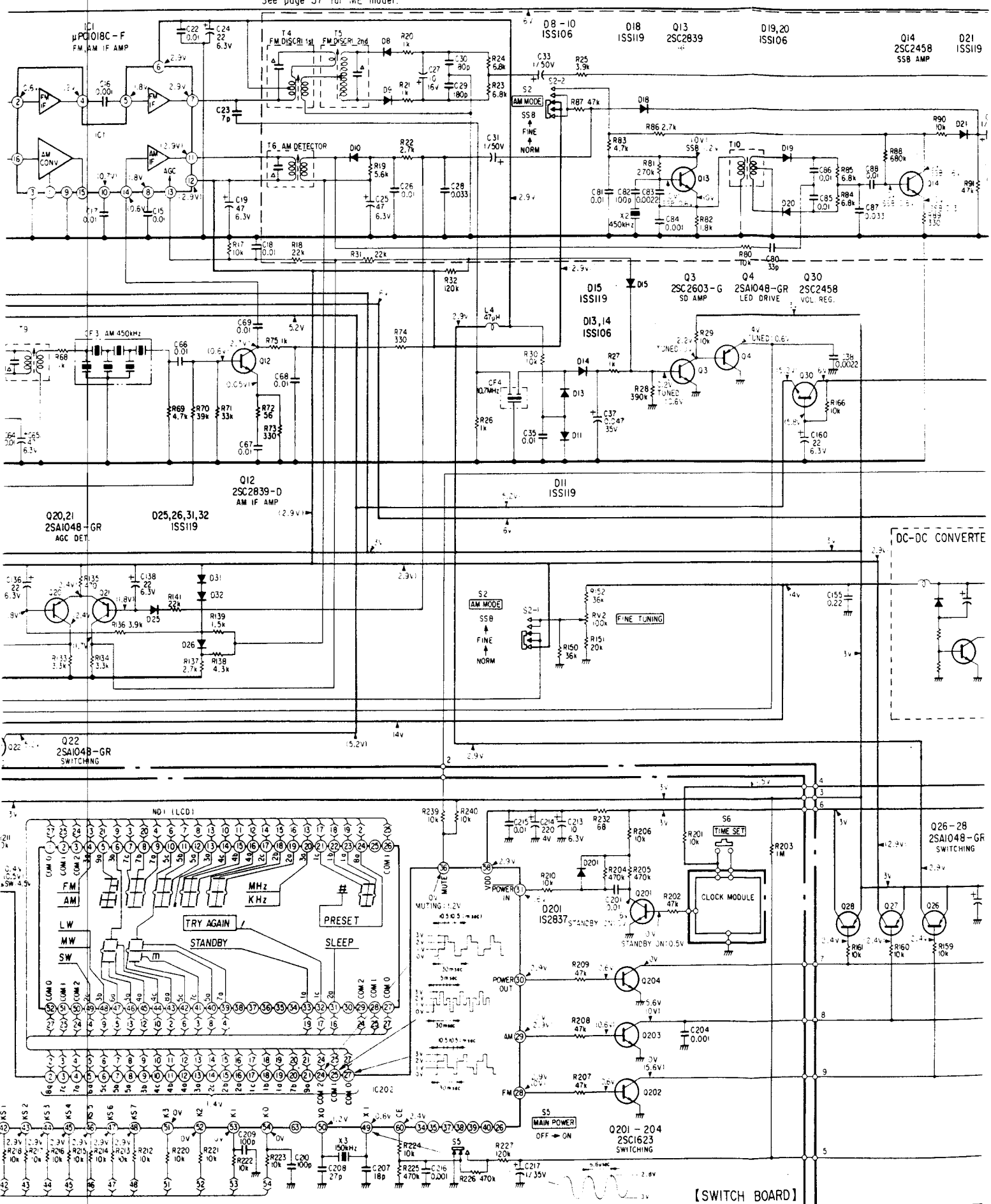
See page 37 for ME model.



AEP, UK model
E model: New

J K L M N O P Q

See page 37 for ME model.



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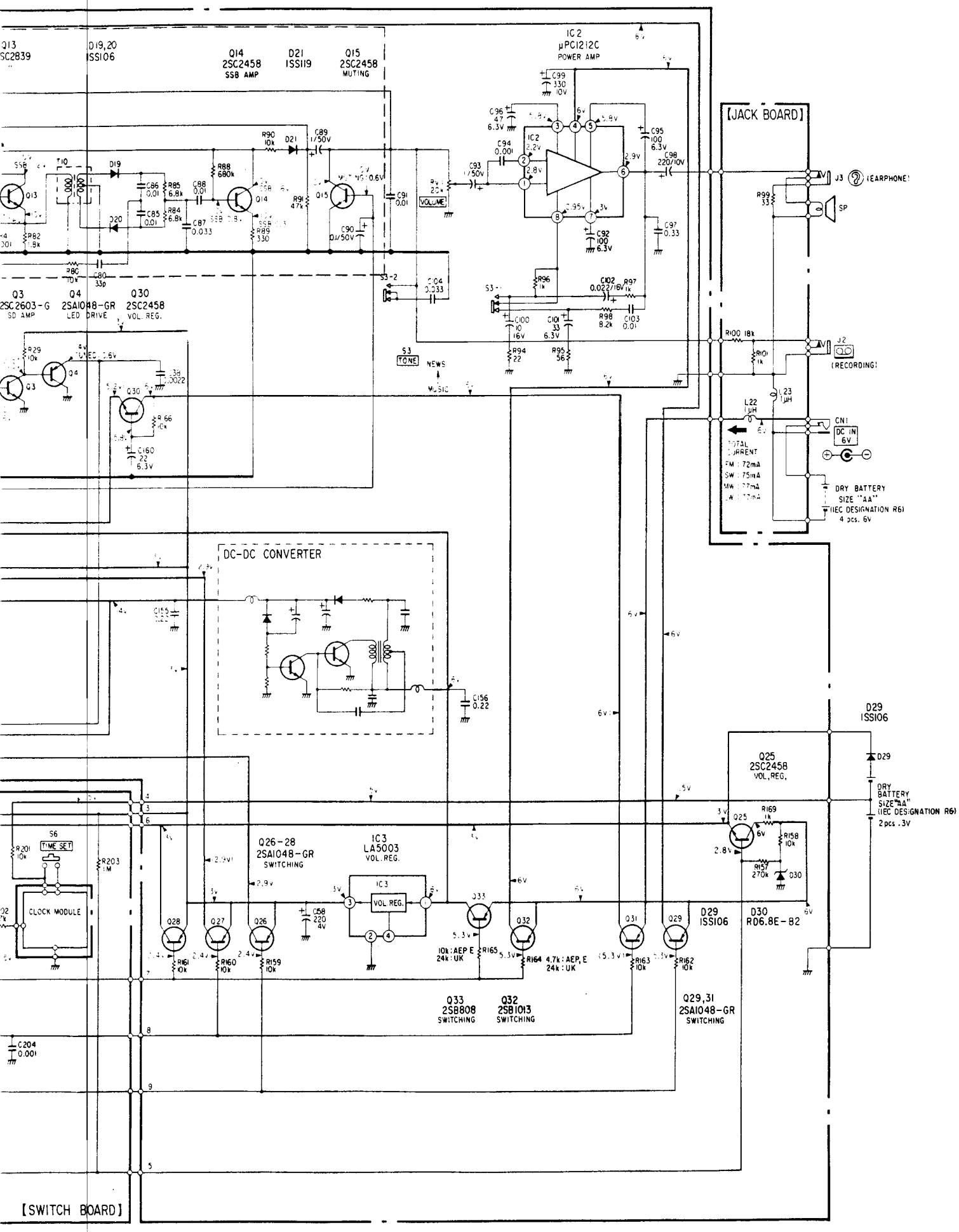
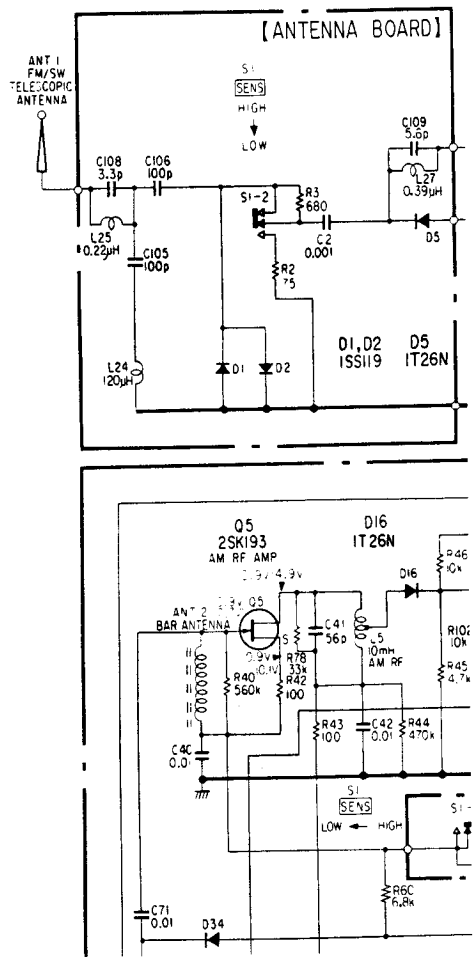
O | P | Q | R | S | T | U | V


Q13
SC2839
D19,20
ISS106
Q14
2SC2458
SSB AMP
D21
ISS119
Q15
2SC2458
MUTING
IC2
μPC1212C
POWER AMP
[JACK BOARD]
J3 (EARPHONE)
SP
J2 (RECORDING)
Q3
2SC2603-G
SD AMP
Q4
2SA1048-GR
LED DRIVE
Q30
2SC2458
VOL. REG.
S3
TONE
NEWS
MUSIC
VOLUME
DC-DC CONVERTER
CN1
DC IN 6V
DRY BATTERY
SIZE "AA"
(IEC DESIGNATION R6)
4 pcs. 6V
D29
ISS106
Q25
2SC2458
VOL. REG.
DRY BATTERY
SIZE "AA"
(IEC DESIGNATION R6)
2 pcs. 3V
S6
TIME SET
CLOCK MODULE
Q26-28
2SA1048-GR
SWITCHING
IC3
LA5003
VOL. REG.
Q33
2SB808
SWITCHING
Q32
2SB1013
SWITCHING
Q29,31
2SA1048-GR
SWITCHING
D30
RD6.8E-B2
[SWITCH BOARD]

G-AEP MODEL



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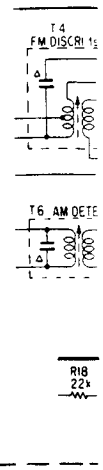
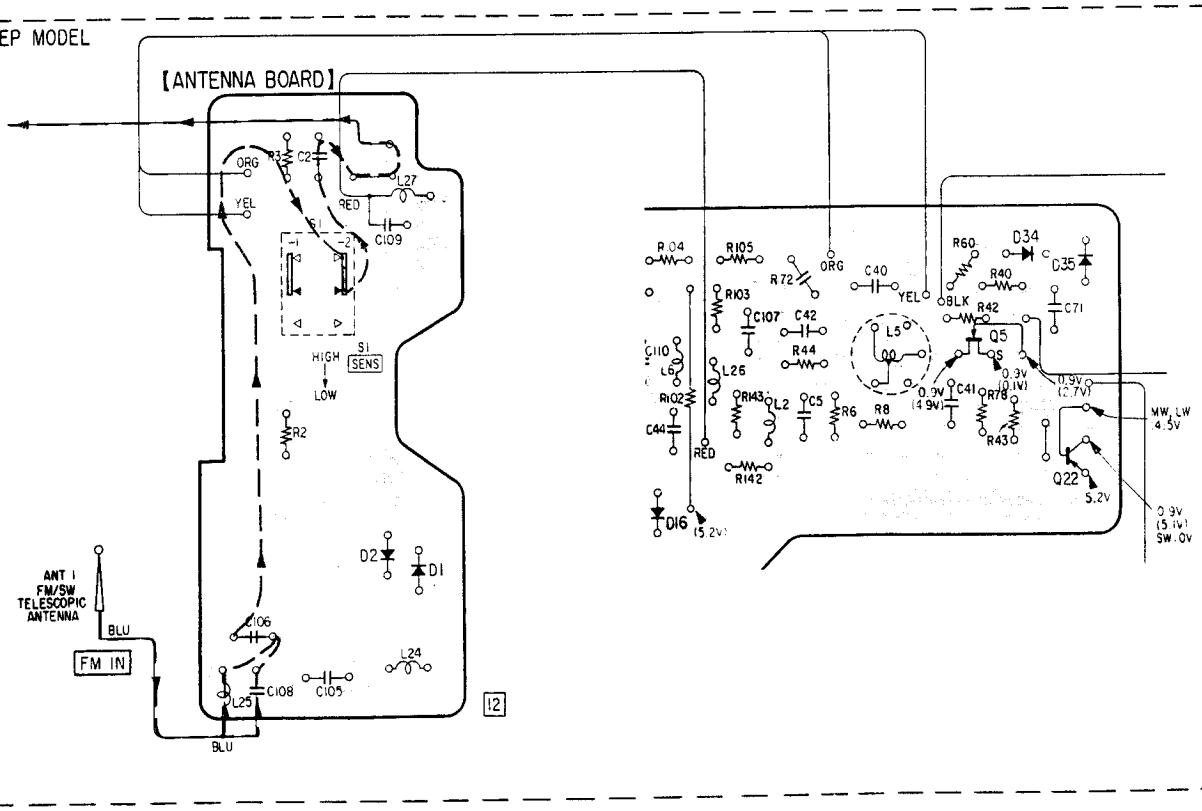
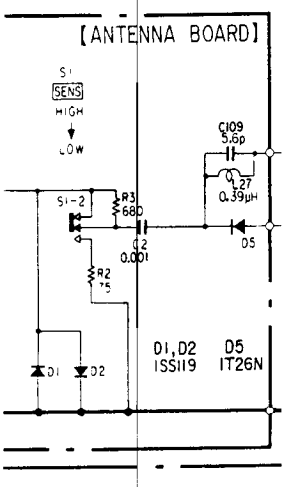
ME MODEL

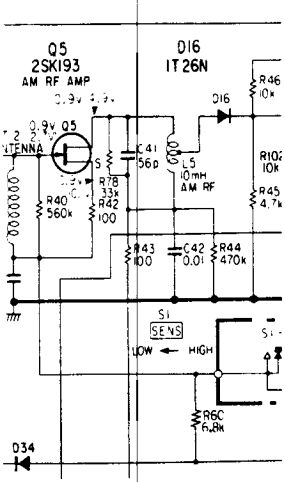


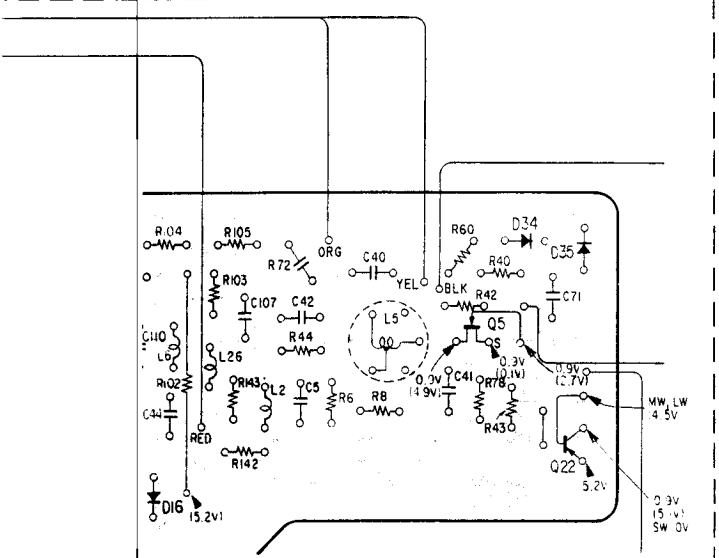
G-AEP MODEL



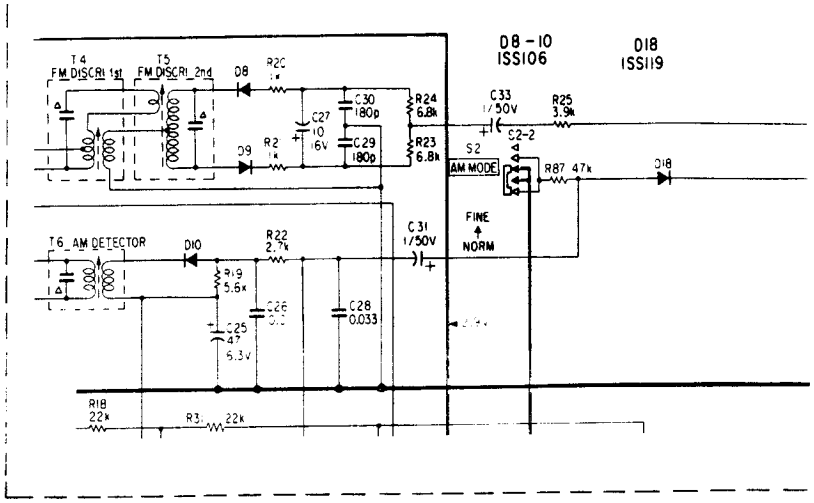
E F G H I J K L







ME MODEL



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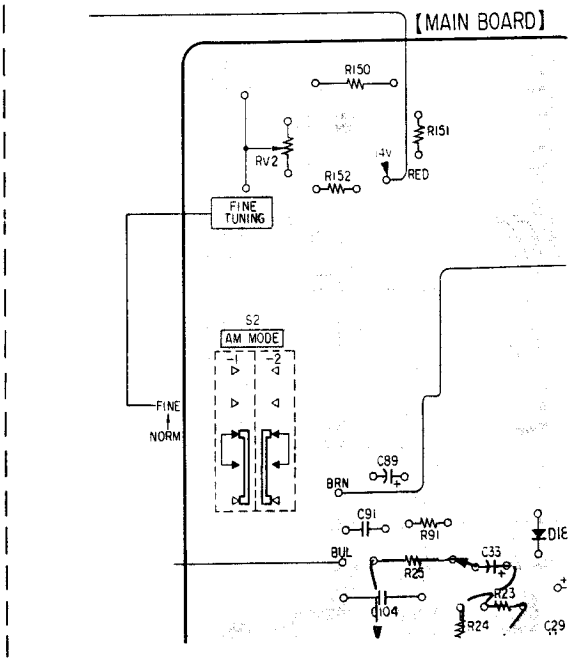
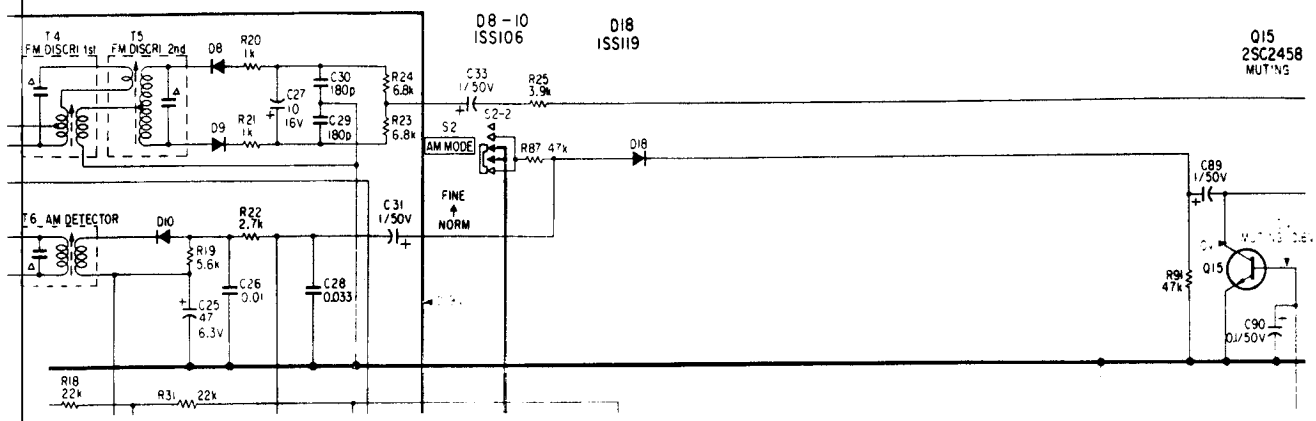


H I J K L M N O

ME MODEL



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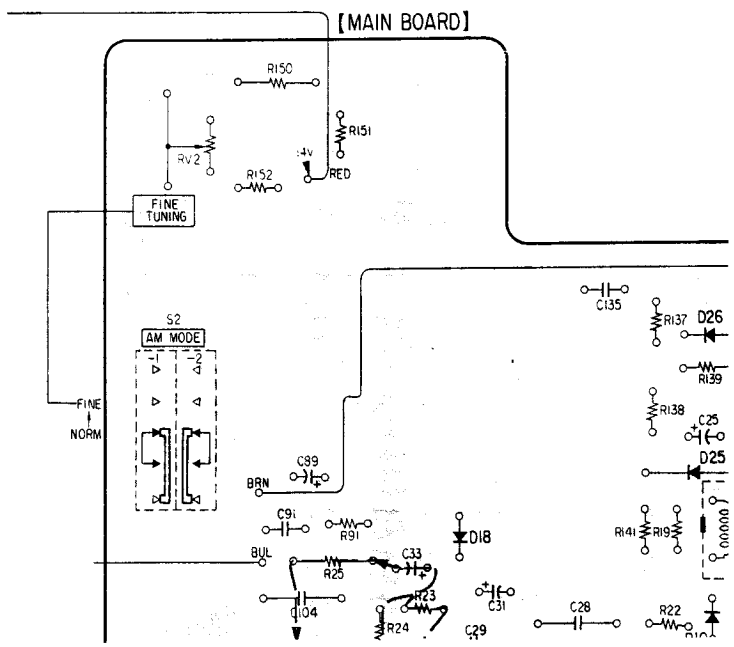
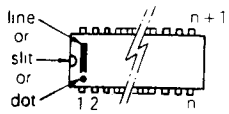
ME MODEL



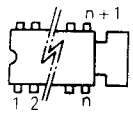
Semiconductor Lead Layouts

μPB556C
μPC1018C-F



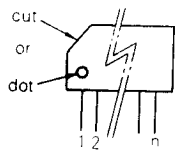
(Top view)

μPC1212C

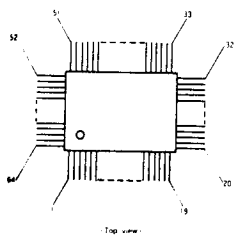


(Top view)

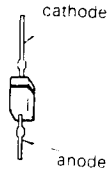
LA5003



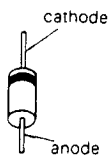
μPD1706G-511



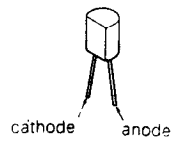
1T26N



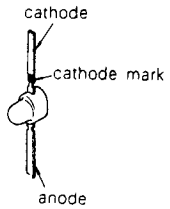
1SS106
1SS119
1SS133
RD6.8EB2



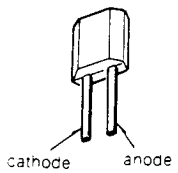
FC52M-5



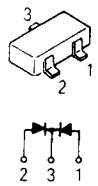
SR506D3



SVC201SP-BG



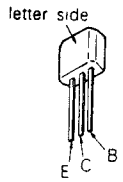
1S2837



2SK152-2

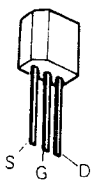
2SB1013

2SC2603-F
2SC2785
2SC2786-K
2SC2786-L



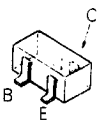
2SA1048-GR
2SB808
2SC2458
2SC2839-D

2SK184

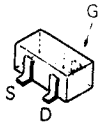


2SK193-Y

2SC1623



2SK209-Y



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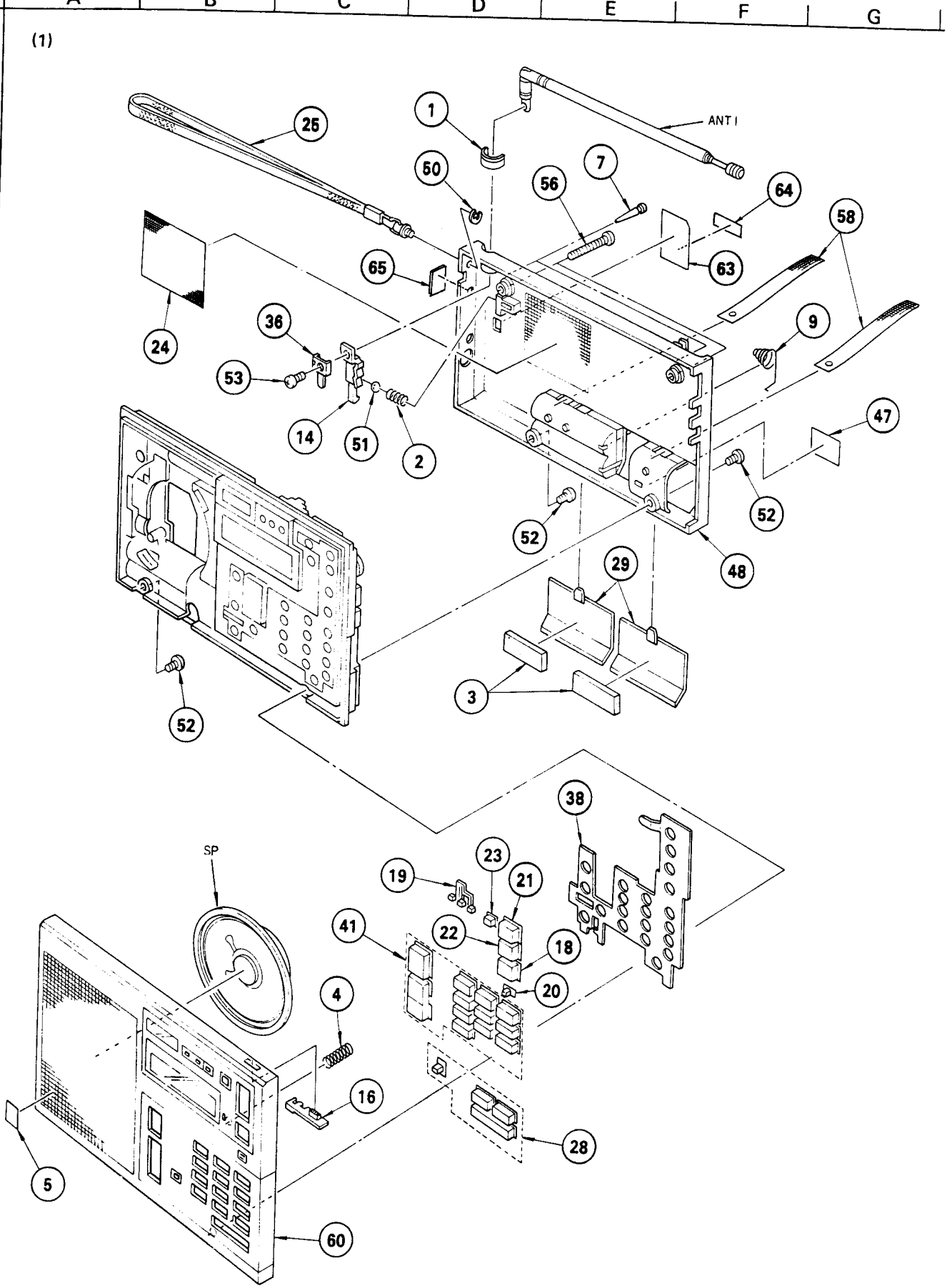
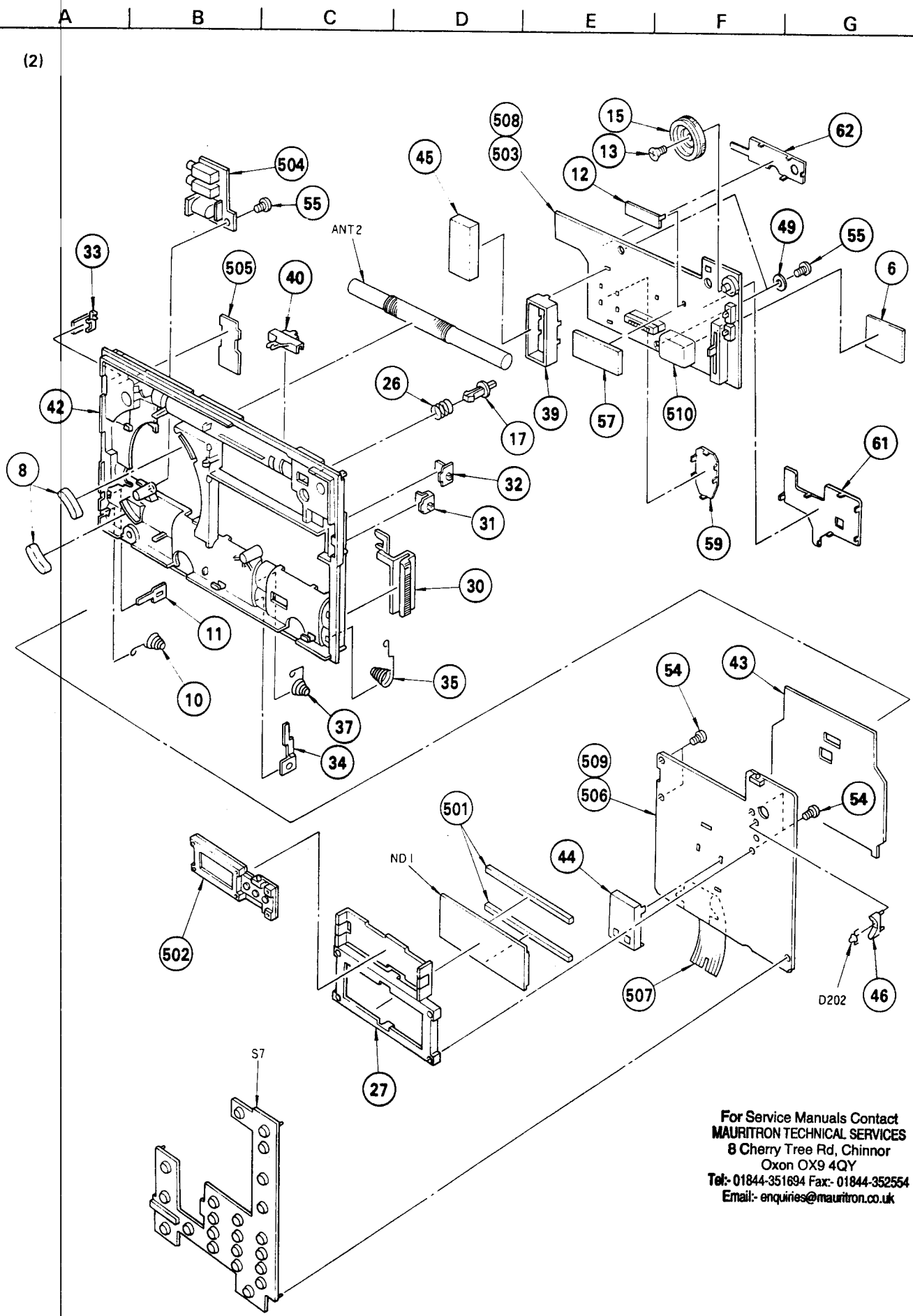
SECTION 5
EXPLODED VIEWS AND PARTS LIST





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GENERAL SECTION

No.	Part No.	Description
1	3-891-847-01	GUARD, ANTENNA
2	3-140-063-00	SPRING, COMPRESSION
3	3-485-341-11	CUSHION
4	3-554-017-00	SPRING, COMPRESSION
5	3-703-709-00	STICKER, SONY SYMBOL (15)
6	3-831-441-XX	CUSHION
7	3-880-917-00	STOPPER
8	3-881-931-00	CUSHION, SPEAKER
9	3-883-423-00	SPRING
10	3-883-424-00	SPRING
11	3-883-428-00	PLATE, TERMINAL (POSITIVE)
12 ♦	3-884-935-00	PLATE (A), SHIELD
13	3-888-156-00	SCREW
14	3-891-802-00	SLIDER (ANTENNA, TELESCOPIC)
15	3-891-803-00	KNOB (FINE)
16	3-891-804-00	KNOB (LOCK)
17	3-891-805-00	BUTTON (TIME SET)
18	3-891-806-00	BUTTON (C)
19	3-891-807-00	BUTTON (D)
20	3-891-808-00	BUTTON (E)
21	3-891-809-01	BUTTON (F)
22	3-891-809-11	BUTTON (F)
23	3-891-810-00	BUTTON (G)
24	3-891-812-00	NET, DUST PROTECTION
25	3-891-813-00	STRAP, HAND
26	3-891-814-00	SPRING, COMPRESSION
27	3-891-815-00	HOLDER
28	3-891-816-00	BUTTON (B)
29	3-891-817-00	LID, BATTERY CASE
30	3-891-818-00	KNOB (VOL)
31	3-891-819-00	KNOB (TONE)
32	3-891-820-00	(AEP,UK,E)....KNOB (MODE)
32	3-891-877-00	(ME).....KNOB (MODE)
33	3-891-821-00	KNOB (SENS)
34	3-891-822-00	TERMINAL, BATTERY
35	3-891-823-00	SPRING (PLUS MINUS)
36	3-891-829-00	TERMINAL BOARD, ANTENNA
37	3-891-830-00	SPRING
38	3-891-834-00	RETAINER, KNOB
39 ♦	3-891-835-00	CASE (C), SHIELD
40	3-891-837-00	KNOB (SELECT)
41	3-891-839-00	BUTTON (A)
42	3-891-843-00	CHASSIS
43 ♦	3-891-853-00	PLATE (D), SHIELD
44 ♦	3-891-854-00	CASE (E), SHIELD
45 ♦	3-891-863-00	CASE, SHIELD (H)

GENERAL SECTION

No.	Part No.	Description
46	3-891-872-00	HOLDER, LED
47	3-891-873-00	LABEL (C)
48	3-891-874-00	LID, REAR, CABINET
49	7-623-954-41	WASHER 3, FIBER
50	7-624-104-04	STOP RING 2.0, TYPE -E
51	7-671-115-01	BALL, STEEL
52	7-682-147-13	SCREW +P 3X6
53	7-682-159-01	SCREW +P 4X5
54	7-685-103-11	SCREW +P 2X5 TYPE2 NON-SLIT
55	7-685-146-11	SCREW +P 3X8 TYPE2 NON-SLIT
56	7-685-152-14	SCREW +P 3X25 TYPE2 NON-SLIT
57	9-911-815-01	CUSHION
58	9-911-816-02	CLOTH, BATTERY DRAWER
59 ♦	X-3891-806-0	PLATE (G) ASSY, SHIELD
60	X-3891-807-1	(AEP,UK,E).....FRONT PANEL ASSY
60	X-3891-814-1	(SOSA FRANCE)...FRONT PANEL ASSY
60	X-3891-815-1	(G-AEP).....FRONT PANEL ASSY
60	X-3891-816-1	(ME).....FRONT PANEL ASSY
61	X-3891-817-0	PLATE (J) ASSY, SHIELD
62	X-3891-818-0	PLATE (K) ASSY, SHIELD
63	3-890-156-00	LABEL, MODEL NUMBER (JE)
64 ♦	3-703-593-01	(G-AEP)...LABEL, FTZ
65	3-891-878-00	(G-AEP)...PLATE, BLIND

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms.
- F : nonflammable

COILS

- MMH : mH, UH : μH

SEMICONDUCTORS

In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC,
UPD···: μPD···

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
101 ⚠	1-468-454-00	ADAPTOR, AC (AC-240)
102	1-501-283-00	ANTENNA, WIRE (AM)
103	1-504-059-11	MAGNETIC EARPHONE(ME-20H)
104	1-506-443-00	ADAPTOR, PLUG
105	3-701-616-00	BAG, POLYETHYLENE
106	3-701-617-00	BAG, POLYETHYLENE
107	3-701-620-00	BAG, POLYETHYLENE
108	3-703-539-01	(G-AEP)...INSTRUCTION, FTZ
109	3-887-285-01	BOOK, RADIO GUIDE
110	3-890-830-00	BAG, POLYETHYLENE
111	3-891-848-00	CASE, CARRYING
112	3-891-849-00	CASE, ACCESSORY
113	3-891-850-00	INDIVIDUAL CARTON
114	3-891-851-00	CUSHION
115	3-891-883-00	(G-AEP)...FRAME, INNER, ACCESSORY
116	3-995-966-11	(AEP,E)...MANUAL, INSTRUCTION
117	3-995-966-41	(G-AEP)...MANUAL, INSTRUCTION
118	3-995-966-51	(UK).....MANUAL, INSTRUCTION
119	3-995-966-61	(AEP,E)...MANUAL, INSTRUCTION
120	3-995-966-71	(ME).....MANUAL, INSTRUCTION
121	X-3891-802-0	ANTENNA ASSY, WIRE, AM
122	3-891-892-01	(UK)....LABEL (UK)

ELECTRICAL PARTS

Ref.No.	Part No.	Description
501	1-535-468-00	CONDUCTOR, CONNECTOR
502	1-548-136-00	CLOCK MODULE
503	♦;1-610-625-00	PC BOARD, MAIN
504	♦;1-610-627-00	PC BOARD, JACK
505	♦;1-610-628-00	PC BOARD, ANTENNA
506	♦;1-610-629-00	PC BOARD, SWITCH
507	1-610-740-00	PC BOARD, JOINT
508	♦;A-3660-443-A	(AEP,E)....MOUNTED PCB, MAIN
508	♦;A-3660-461-A	(G-AEP)....MOUNTED PCB, MAIN
508	♦;A-3660-462-A	(ME).....MOUNTED PCB, MAIN
508	♦;A-3660-464-A	(UK).....MOUNTED PCB, MAIN
508	♦;A-3661-177-A	(E Former Type)...MOUNTED PCB, MAIN
509	♦;A-3681-177-A	(AEP,E)....MOUNTED PCB, SWITCH
505	♦;A-3681-181-A	(AEP,E)....MOUNTED PCB, SWITCH
510	A-3689-039-A	(AEP,E)....DC-DC CONVERTER
510	A-3689-045-A	(UK).....DC-DC CONVERTER
ANT1	1-501-255-00	ANTENNA, TELESCOPIC
ANT2	1-402-022-12	ANTENNA, FERRITE-ROD (LW/MW)
C2	1-161-026-00	CERAMIC 0.001MF 20% 25V
C3	1-161-029-00	(G-AEP:NOT USED)...CERAMIC 0.0033MF 20% 25V
C4	1-161-032-00	(G-AEP:NOT USED)...CERAMIC 0.01MF 20% 25V
C5	1-161-039-00	CERAMIC 0.001MF 20% 50V
C6	1-161-032-00	CERAMIC 0.01MF 20% 25V
C7	1-161-032-00	CERAMIC 0.01MF 20% 25V
C8	1-161-043-00	CERAMIC 0.0022MF 20% 50V
C9	1-161-032-00	CERAMIC 0.01MF 20% 25V
C10	1-123-618-00	ELECT 22MF 20% 6.3V
C11	1-102-935-00	CERAMIC 2PF 0.25PF 50V
C12	1-102-110-00	CERAMIC 220PF 10% 50V
C13	1-102-942-00	CERAMIC 5PF 0.5PF 50V
C14	1-161-032-00	CERAMIC 0.01MF 20% 25V
C15	1-161-032-00	CERAMIC 0.01MF 20% 25V
C16	1-101-001-00	CERAMIC 0.001MF 50V
C17	1-161-032-00	CERAMIC 0.01MF 20% 25V
C18	1-161-032-00	CERAMIC 0.01MF 20% 25V
C19	1-123-647-00	ELECT 47MF 20% 6.3V
C22	1-161-032-00	CERAMIC 0.01MF 20% 25V
C23	1-102-944-00	CERAMIC 7PF 0.5PF 50V
C24	1-123-618-00	ELECT 22MF 20% 6.3V
C25	1-123-647-00	ELECT 47MF 20% 6.3V
C26	1-161-032-00	CERAMIC 0.01MF 20% 25V
C27	1-123-617-00	ELECT 10MF 20% 16V

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In each case, U : μ, for example:

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The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C28	1-161-035-00	CERAMIC	0.033MF	20%	25V
C29	1-102-976-00	CERAMIC	180PF	10%	50V
C30	1-102-976-00	CERAMIC	180PF	10%	50V
C31	1-123-611-00	ELECT	1MF	20%	50V
C33	1-123-611-00	ELECT	1MF	20%	50V
C35	1-161-032-00	CERAMIC	0.01MF	20%	25V
C37	1-131-400-00	TANTALUM	0.047MF	20%	35V
C38	1-161-043-00	CERAMIC	0.0022MF	20%	25V
C40	1-161-032-00	CERAMIC	0.01MF	20%	25V
C41	1-101-884-00	CERAMIC	56PF	10%	50V
C42	1-161-032-00	CERAMIC	0.01MF	20%	25V
C43	1-161-032-00	CERAMIC	0.01MF	20%	25V
C44	1-161-032-00	CERAMIC	0.01MF	20%	25V
C47	1-161-032-00	CERAMIC	0.01MF	20%	25V
C48	1-102-942-00	CERAMIC	5PF	0.5PF	50V
C49	1-102-934-00	CERAMIC	1PF	0.25PF	50V
C50	1-161-032-00	CERAMIC	0.01MF	20%	25V
C54	1-161-032-00	CERAMIC	0.01MF	20%	25V
C55	1-161-032-00	CERAMIC	0.01MF	20%	25V
C56	1-123-647-00	ELECT	47MF	20%	6.3V
C57	1-161-032-00	CERAMIC	0.01MF	20%	25V
C58	1-123-647-00	ELECT	47MF	20%	6.3V
C61	1-102-945-00	CERAMIC	8PF	0.5PF	50V
C62	1-161-032-00	CERAMIC	0.01MF	20%	25V
C63	1-161-032-00	CERAMIC	0.01MF	20%	25V
C64	1-161-032-00	CERAMIC	0.01MF	20%	25V
C65	1-123-647-00	ELECT	47MF	20%	6.3V
C66	1-161-032-00	CERAMIC	0.01MF	20%	25V
C67	1-161-032-00	CERAMIC	0.01MF	20%	25V
C68	1-161-032-00	CERAMIC	0.01MF	20%	25V
C69	1-161-032-00	CERAMIC	0.01MF	20%	25V
C70	1-102-961-00	CERAMIC	27PF	5%	50V
C71	1-161-051-00	CERAMIC	0.01MF	10%	50V
C72	1-161-051-00	CERAMIC	0.01MF	10%	50V
C73	1-161-051-00	CERAMIC	0.01MF	10%	50V
C74	1-161-051-00	CERAMIC	0.01MF	10%	50V
C75	1-102-947-00	CERAMIC	10PF	5%	50V
C76	1-102-953-00	CERAMIC	18PF	5%	50V
C77	1-102-959-00	CERAMIC	18PF	5%	50V
C80	1-102-963-00	(ME:NOT USED)..CERAMIC	33PF	5%	50V
C81	1-161-032-00	(ME:NOT USED)..CERAMIC	0.01MF	20%	25V
C82	1-102-973-00	(ME:NOT USED)..CERAMIC	100PF	5%	50V
C83	1-161-028-00	(ME:NOT USED)..CERAMIC	0.0022MF	20%	25V
C84	1-161-026-00	(ME:NOT USED)..CERAMIC	0.001MF	20%	25V
C85	1-161-032-00	(ME:NOT USED)..CERAMIC	0.01MF	20%	25V

ELECTRICAL PARTS

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C86	1-161-032-00	(ME:NOT USED)..CERAMIC	0.01MF	20%	25V
C87	1-161-035-00	(ME:NOT USED)..CERAMIC	0.033MF	20%	25V
C88	1-161-032-00	(ME:NOT USED)..CERAMIC	0.01MF	20%	25V
C89	1-123-611-00	ELECT	1MF	20%	50V
C90	1-123-607-00	ELECT	0.1MF	20%	50V
C91	1-161-032-00	CERAMIC	0.01MF	20%	25V
C92	1-123-661-00	ELECT	100MF	20%	6.3V
C93	1-123-611-00	ELECT	1MF	20%	50V
C94	1-101-001-00	CERAMIC	0.001MF		50V
C95	1-123-661-00	ELECT	100MF	20%	6.3V
C96	1-123-647-00	ELECT	47MF	20%	6.3V
C97	1-130-774-00	FILM	0.33MF	10%	63V
C98	1-123-308-00	ELECT	220MF	20%	10V
C99	1-123-309-00	ELECT	330MF	20%	10V
C100	1-123-617-00	ELECT	10MF	20%	16V
C101	1-123-646-00	ELECT	33MF	20%	6.3V
C102	1-131-398-00	TANTALUM	0.022MF	20%	35V
C103	1-161-032-00	CERAMIC	0.01MF	20%	25V
C104	1-161-035-00	CERAMIC	0.033MF	20%	25V
C105	1-102-106-00	CERAMIC	100PF	10%	50V
C106	1-102-106-00	CERAMIC	100PF	10%	50V
C107	1-102-113-00	CERAMIC	390PF	10%	50V
C108	1-162-007-00	CERAMIC	3.3PF	10%	50V
C109	1-162-010-00	CERAMIC	5.6PF	10%	50V
C110	1-102-937-00	CERAMIC	4PF	0.25PF	50V
C120	1-161-032-00	CERAMIC	0.01MF	20%	25V
C121	1-102-951-00	CERAMIC	15PF	5%	50V
C122	1-102-934-00	CERAMIC	1PF	0.25PF	50V
C123	1-123-647-00	ELECT	47MF	20%	6.3V
C124	1-161-032-00	CERAMIC	0.01MF	20%	25V
C125	1-102-110-00	CERAMIC	220PF	10%	50V
C126	1-102-947-00	CERAMIC	10PF	5%	50V
C127	1-161-035-00	CERAMIC	0.033MF	20%	25V
C128	1-102-934-00	CERAMIC	1PF	0.25PF	50V
C130	1-131-389-00	TANTALUM	10MF	20%	3.15V
C131	1-161-032-00	CERAMIC	0.01MF	20%	25V
C132	1-101-884-00	CERAMIC	56PF	10%	50V
C133	1-101-880-00	CERAMIC	47PF	10%	50V
C134	1-101-884-00	CERAMIC	56PF	10%	50V
C135	1-161-026-00	CERAMIC	0.001MF	20%	25V
C136	1-123-618-00	ELECT	22MF	20%	6.3V
C138	1-123-618-00	ELECT	22MF	20%	6.3V

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C155	1-130-772-00	FILM	0.22MF	10%	63V
C156	1-130-772-00	FILM	0.22MF	10%	63V
C158	1-123-827-00	ELECT	220MF	20%	4V
C159	1-101-001-00	CERAMIC	0.001MF		50V
C160	1-123-618-00	ELECT	22MF	20%	6.3V
C201	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V
C203	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V
C204	1-163-047-00	CERAMIC CHIP	0.001MF	10%	50V
C205	1-124-435-00	ELECT	10MF	20%	6.3V
C206	1-124-435-00	ELECT	10MF	20%	6.3V
C207	1-163-163-00	CERAMIC CHIP	18PF	5%	50V
C208	1-163-167-00	CERAMIC CHIP	27PF	5%	50V
C209	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C210	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C211	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V
C212	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C213	1-131-383-00	TANTALUM	10MF	20%	6.3V
C214	1-123-827-00	ELECT	220MF	20%	4V
C215	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V
C216	1-163-047-00	CERAMIC CHIP	0.001MF	10%	50V
C217	1-124-438-00	ELECT	1MF	20%	50V
C218	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C219	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V
C220	1-131-383-00	TANTALUM	10MF	20%	6.3V
C221	1-163-059-00	CERAMIC CHIP	0.01MF	10%	50V
C223	1-163-189-00	CERAMIC CHIP	220PF	5%	50V
C224	1-130-832-00	FILM	0.68MF	10%	63V
C225	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C226	1-163-047-00	CERAMIC CHIP	0.001MF	5%	50V
C227	1-163-059-00	CERAMIC	0.01MF	10%	50V
CF1	1-527-795-71	FILTER, CERAMIC			
CF2	1-527-795-71	FILTER, CERAMIC			
CF3	1-567-106-00	FILTER, CERAMIC			
CF4	1-567-107-00	FILTER, CERAMIC			
CNJ1	1-562-283-00	SOCKET, CONNECTOR 14P			
CT1	1-141-232-00	CAP, TRIMAR 11PF			
CT2	1-141-232-00	CAP, TRIMAR 11PF			
D1	8-719-911-19	DIODE 1SS119			
D2	8-719-911-19	DIODE 1SS119			
D5	8-719-104-15	DIODE 1T26N			
D6	8-719-907-19	DIODE FC52M-5			
D7	8-719-907-19	DIODE FC52M-5			
D8	8-719-911-06	DIODE 1SS106			

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D9	8-719-911-06	DIODE 1SS106
D10	8-719-911-06	DIODE 1SS106
D11	8-719-911-19	DIODE 1SS119
D13	8-719-911-06	DIODE 1SS106
D14	8-719-911-06	DIODE 1SS106
D15	8-719-911-19	DIODE 1SS119
D16	8-719-104-15	DIODE 1T26N
D18	8-719-911-19	DIODE 1SS119
D19	8-719-911-06	(ME:NOT USED)...DIODE 1SS106
D20	8-719-911-06	(ME:NOT USED)...DIODE 1SS106
D21	8-719-911-19	(ME:NOT USED)...DIODE 1SS119
D22	8-719-911-19	DIODE 1SS119
D23	8-719-907-19	DIODE FC52M-5
D24	8-719-912-03	DIODE SVC201SP-BG
D25	8-719-911-19	DIODE 1SS119
D26	8-719-911-19	DIODE 1SS119
D29	8-719-911-06	DIODE 1SS106
D30	8-719-100-41	DIODE RD6.8EB2
D31	8-719-911-19	DIODE 1SS119
D32	8-719-911-19	DIODE 1SS119
D33	8-719-901-33	DIODE 1SS133
D34	8-719-911-19	DIODE 1SS119
D35	8-719-911-19	DIODE 1SS119
D36	8-719-911-19	DIODE 1SS119
D37	8-719-911-19	DIODE 1SS119
D201	8-719-100-05	DIODE 1S2837
D202	8-719-104-37	DIODE SR506D
D203	8-719-100-05	DIODE 1S2837
D204	8-719-100-05	DIODE 1S2837
D205	8-719-100-05	DIODE 1S2837
D206	8-719-100-05	DIODE 1S2837
D207	8-719-100-05	DIODE 1S2837
D208	8-719-100-05	DIODE 1S2837
D209	8-719-911-19	DIODE 1SS119
IC1	8-759-110-17	IC UPC1018C-F
IC2	8-759-100-17	IC UPC1212C
IC3	8-759-800-27	IC LA5003
IC201	8-759-100-63	IC UPB556C
IC202	8-759-101-11	IC UPD1706G-511
J1	1-507-853-00	(G-AEP:NOT USED)...JACK (EXT.ANT)
J2	1-507-527-00	JACK, EARPHONE (REC OUT)
J3	1-507-527-00	JACK, EARPHONE (EARPHONE)
J4	1-507-459-00	JACK (DC IN 6V)
L1	1-408-558-00	(G-AEP:NOT USED)...MICRO INDUCTOR 3.9UH
L2	1-408-563-00	MICRO INDUCTOR 10UH
L3	1-407-882-00	COIL

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Ref.No.	Part No.	Description
L4	1-408-571-00	MICRO INDUCTOR 47UH
L5	1-426-137-00	TRANSFORMER, HF
L6	1-408-900-11	MICRO INDUCTOR 0.82UH
L7	1-408-555-00	MICRO INDUCTOR 2.2UH
L8	1-408-555-00	MICRO INDUCTOR 2.2UH
L11	1-408-560-00	MICRO INDUCTOR 5.6UH
L12	1-422-135-00	COIL, AIR-CORE (RF)
L13	1-408-800-11	MICRO INDUCTOR 0.27UH
L14	1-408-901-11	MICRO INDUCTOR 0.56UH
L15	1-408-562-00	MICRO INDUCTOR 8.2UH
L16	1-408-903-11	MICRO INDUCTOR 0.39UH
L19	1-426-158-00	COIL (RF)
L20	1-459-475-00	COIL (WITH CORE)
L21	1-408-557-00	(G-AEP:NOT USED)...MICRO INDUCTOR 3.3UH
L22	1-407-882-00	INDUCTOR 1UH
L23	1-407-882-00	INDUCTOR 1UH
L24	1-408-576-00	MICRO INDUCTOR 120UH
L25	1-408-801-11	MICRO INDUCTOR 0.22UH
L26	1-408-574-00	MICRO INDUCTOR 82UH
L27	1-408-903-11	MICRO INDUCTOR 0.39UH
ND1	1-806-646-00	DISPLAY PANEL, LIQUID CRYSTAL
Q1	8-729-119-32	TRANSISTOR 2SK193
Q2	8-729-178-62	TRANSISTOR 2SC2786-L
Q3	8-729-606-33	TRANSISTOR 2SC2603-F
Q4	8-729-204-83	TRANSISTOR 2SA1048-GR
Q5	8-729-119-32	TRANSISTOR 2SK193
Q6	8-729-204-83	(G-AEP:NOT USED)..TRANSISTOR 2SA1048-GR
Q7	8-729-162-00	TRANSISTOR 2SK152-2
Q8	8-729-178-54	TRANSISTOR 2SC2785-F
Q9	8-729-162-00	TRANSISTOR 2SK152-2
Q10	8-729-162-00	TRANSISTOR 2SK152-2
Q11	8-729-162-00	TRANSISTOR 2SK152-2
Q12	8-729-883-91	TRANSISTOR 2SC2839-D
Q13	8-729-883-92	(ME:NOT USED)...TRANSISTOR 2SC2839
Q14	8-729-245-83	(ME:NOT USED)...TRANSISTOR 2SC2458
Q15	8-729-245-83	TRANSISTOR 2SC2458
Q16	8-729-178-62	TRANSISTOR 2SC2786-L
Q17	8-729-178-62	TRANSISTOR 2SC2786-L
Q18	8-729-178-62	TRANSISTOR 2SC2786-L
Q19	8-729-178-63	TRANSISTOR 2SC2786-K
Q20	8-729-204-83	TRANSISTOR 2SA1048-GR
Q21	8-729-204-83	TRANSISTOR 2SA1048-GR
Q22	8-729-204-83	TRANSISTOR 2SA1048-GR
Q25	8-729-245-83	TRANSISTOR 2SC2458
Q26	8-729-204-83	TRANSISTOR 2SA1048-GR

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q27	8-729-204-83	TRANSISTOR 2SA1048-GR
Q28	8-729-204-83	TRANSISTOR 2SA1048-GR
Q29	8-729-204-83	TRANSISTOR 2SA1048-GR
Q30	8-729-245-83	TRANSISTOR 2SC2458
Q31	8-729-204-83	TRANSISTOR 2SA1048-GR
Q32	8-729-801-83	TRANSISTOR 2SB1013
Q33	8-729-800-83	TRANSISTOR 2SB808
Q34	8-729-218-42	TRANSISTOR 2SK184
Q201	8-729-100-66	TRANSISTOR 2SC1623
Q202	8-729-100-66	TRANSISTOR 2SC1623
Q203	8-729-100-66	TRANSISTOR 2SC1623
Q204	8-729-100-66	TRANSISTOR 2SC1623
Q205	8-729-220-93	TRANSISTOR 2SK209-Y
Q206	8-729-100-66	TRANSISTOR 2SC1623
R1	1-247-871-00	(G-AEP:NOT USED)...CARBON 47K 5% 1/6W
R2	1-247-804-00	CARBON 75 5% 1/6W
R3	1-247-827-00	CARBON 680 5% 1/6W
R4	1-247-805-00	(G-AEP:NOT USED)...CARBON 82 5% 1/6W
R5	1-247-839-00	(G-AEP:NOT USED)...CARBON 2.2K 5% 1/6W
R6	1-247-845-00	CARBON 3.9K 5% 1/6W
R8	1-247-855-00	CARBON 10K 5% 1/6W
R9	1-247-831-00	CARBON 1K 5% 1/6W
R10	1-247-879-00	CARBON 100K 5% 1/6W
R11	1-247-891-00	CARBON 330K 5% 1/6W
R12	1-247-903-00	CARBON 1M 5% 1/6W
R13	1-247-819-00	CARBON 330 5% 1/6W
R14	1-247-893-00	CARBON 390K 5% 1/6W
R15	1-247-843-00	CARBON 3.3K 5% 1/6W
R16	1-247-825-00	CARBON 560 5% 1/6W
R17	1-247-855-00	CARBON 10K 5% 1/6W
R18	1-247-863-00	CARBON 22K 5% 1/6W
R19	1-247-849-00	CARBON 5.6K 5% 1/6W
R20	1-247-831-00	CARBON 1K 5% 1/6W
R21	1-247-831-00	CARBON 1K 5% 1/6W
R22	1-247-841-00	CARBON 2.7K 5% 1/6W
R23	1-247-851-00	CARBON 6.8K 5% 1/6W
R24	1-247-851-00	CARBON 6.8K 5% 1/6W
R25	1-247-845-00	CARBON 3.9K 5% 1/6W
R26	1-247-831-00	CARBON 1K 5% 1/6W
R27	1-247-831-00	CARBON 1K 5% 1/6W
R28	1-247-893-00	CARBON 390K 5% 1/6W
R29	1-247-855-00	CARBON 10K 5% 1/6W
R30	1-247-855-00	CARBON 10K 5% 1/6W
R31	1-247-863-00	CARBON 22K 5% 1/6W

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R32	1-247-881-00	CARBON	120K	5%	1/6W
R33	1-247-831-00	CARBON	1K	5%	1/6W
R40	1-247-897-00	CARBON	560K	5%	1/6W
R42	1-247-807-00	CARBON	100	5%	1/6W
R43	1-247-807-00	CARBON	100	5%	1/6W
R44	1-247-895-00	CARBON	470K	5%	1/6W
R45	1-247-847-00	CARBON	4.7K	5%	1/6W
R46	1-247-855-00	CARBON	10K	5%	1/6W
R47	1-247-831-00	CARBON	1K	5%	1/6W
R48	1-247-879-00	CARBON	100K	5%	1/6W
R49	1-247-819-00	CARBON	330	5%	1/6W
R50	1-247-795-00	CARBON	33	5%	1/6W
R51	1-247-807-00	CARBON	100	5%	1/6W
R52	1-247-827-00	CARBON	680	5%	1/6W
R55	1-247-841-00	CARBON	2.7K	5%	1/6W
R56	1-247-843-00	CARBON	3.3K	5%	1/6W
R57	1-247-807-00	CARBON	100	5%	1/6W
R58	1-247-807-00	CARBON	100	5%	1/6W
R59	1-247-831-00	CARBON	1K	5%	1/6W
R60	1-247-851-00	CARBON	6.8K	5%	1/6W
R61	1-247-871-00	CARBON	47K	5%	1/6W
R62	1-247-867-00	CARBON	33K	5%	1/6W
R63	1-247-879-00	CARBON	100K	5%	1/6W
R64	1-247-863-00	CARBON	22K	5%	1/6W
R65	1-247-885-00	CARBON	180K	5%	1/6W
R66	1-247-845-00	CARBON	3.9K	5%	1/6W
R67	1-247-835-00	CARBON	1.5K	5%	1/6W
R68	1-247-831-00	CARBON	1K	5%	1/6W
R69	1-247-847-00	CARBON	4.7K	5%	1/6W
R70	1-247-869-00	CARBON	39K	5%	1/6W
R71	1-247-867-00	CARBON	33K	5%	1/6W
R72	1-247-801-00	CARBON	56	5%	1/6W
R73	1-247-819-00	CARBON	330	5%	1/6W
R74	1-247-819-00	CARBON	330	5%	1/6W
R75	1-247-831-00	CARBON	1K	5%	1/6W
R77	1-247-807-00	CARBON	100	5%	1/6W
R78	1-247-867-00	CARBON	33K	5%	1/6W
R80	1-247-855-00	(ME:NOT USED)...CARBON	10K	5%	1/6W
R81	1-247-889-00	(ME:NOT USED)...CARBON	270K	5%	1/6W
R82	1-247-837-00	(ME:NOT USED)...CARBON	1.8K	5%	1/6W
R83	1-247-847-00	(ME:NOT USED)...CARBON	4.7K	5%	1/6W
R84	1-247-851-00	(ME:NOT USED)...CARBON	6.8K	5%	1/6W
R85	1-247-851-00	(ME:NOT USED)...CARBON	6.8K	5%	1/6W
R86	1-247-841-00	(ME:NOT USED)...CARBON	2.7K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R87	1-247-871-00	CARBON	47K	5%	1/6W
R88	1-247-899-00	(ME:NOT USED)...CARBON	680K	5%	1/6W
R89	1-247-819-00	(ME:NOT USED)...CARBON	330	5%	1/6W
R90	1-247-855-00	(ME:NOT USED)...CARBON	10K	5%	1/6W
R91	1-247-871-00	CARBON	47K	5%	1/6W
R94	1-247-791-00	CARBON	22	5%	1/6W
R95	1-247-801-00	CARBON	56	5%	1/6W
R96	1-247-831-00	CARBON	1K	5%	1/6W
R97	1-247-831-00	CARBON	1K	5%	1/6W
R98	1-247-853-00	CARBON	8.2K	5%	1/6W
R99	1-247-795-00	CARBON	33	5%	1/6W
R100	1-247-861-00	CARBON	18K	5%	1/6W
R101	1-247-831-00	CARBON	1K	5%	1/6W
R102	1-247-855-00	CARBON	10K	5%	1/6W
R103	1-247-843-00	CARBON	3.3K	5%	1/6W
R104	1-247-831-00	CARBON	1K	5%	1/6W
R105	1-247-855-00	CARBON	10K	5%	1/6W
R119	1-247-815-00	CARBON	220	5%	1/6W
R120	1-247-817-00	CARBON	270	5%	1/6W
R121	1-247-873-00	CARBON	56K	5%	1/6W
R122	1-247-795-00	CARBON	33	5%	1/6W
R123	1-247-833-00	CARBON	1.2K	5%	1/6W
R124	1-247-815-00	CARBON	220	5%	1/6W
R125	1-247-827-00	CARBON	680	5%	1/6W
R126	1-247-855-00	CARBON	10K	5%	1/6W
R127	1-247-873-00	CARBON	56K	5%	1/6W
R128	1-247-807-00	CARBON	100	5%	1/6W
R129	1-247-875-00	CARBON	68K	5%	1/6W
R130	1-247-835-00	CARBON	1.5K	5%	1/6W
R131	1-247-879-00	CARBON	100K	5%	1/6W
R132	1-247-807-00	CARBON	100	5%	1/6W
R133	1-247-843-00	CARBON	3.3K	5%	1/6W
R134	1-247-843-00	CARBON	3.3K	5%	1/6W
R135	1-247-823-00	CARBON	470	5%	1/6W
R136	1-247-845-00	CARBON	3.9K	5%	1/6W
R137	1-247-841-00	CARBON	2.7K	5%	1/6W
R138	1-247-846-00	CARBON	4.3K	5%	1/6W
R139	1-247-835-00	CARBON	1.5K	5%	1/6W
R141	1-247-863-00	CARBON	22K	5%	1/6W
R142	1-247-835-00	CARBON	1.5K	5%	1/6W
R143	1-247-815-00	CARBON	220	5%	1/6W
R150	1-247-868-00	CARBON	36K	5%	1/6W
R151	1-247-862-00	CARBON	20K	5%	1/6W
R152	1-247-868-00	CARBON	36K	5%	1/6W

NOTE:

- Items with nc part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors anc resistors in other same circuits may be omitted.

CAPACITORS:

MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms.
- F : nonflammable

COILS

- MMH : mH, UH : μH

SEMICONDUCTORS

In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC,
UPD···: μPD···

For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R157	1-247-889-00	CARBON	270K	5%	1/6W
R158	1-247-855-00	CARBON	10K	5%	1/6W
R159	1-247-855-00	CARBON	10K	5%	1/6W
R160	1-247-855-00	CARBON	10K	5%	1/6W
R161	1-247-855-00	CARBON	10K	5%	1/6W
R162	1-247-855-00	CARBON	10K	5%	1/6W
R163	1-247-855-00	CARBON	10K	5%	1/6W
R164	1-247-847-00	CARBON	4.7K	5%	1/6W
R164	1-247-864-00	(UK)...CARBON	24K	5%	1/6W
R165	1-247-855-00	CARBON	10K	5%	1/6W
R165	1-247-864-00	(UK)...CARBON	24K	5%	1/6W
R166	1-247-855-00	CARBON	10K	5%	1/6W
R167	1-247-831-00	CARBON	1K	5%	1/6W
R168	1-247-795-00	(G-AEP: NOT USED)...CARBON	33	5%	1/6W
R169	1-247-831-00	CARBON	1K	5%	1/6W
R201	1-247-855-00	CARBON	10K	5%	1/6W
R202	1-247-871-00	CARBON	47K	5%	1/6W
R203	1-247-903-00	CARBON	1M	5%	1/6W
R204	1-247-895-00	CARBON	470K	5%	1/6W
R205	1-247-895-00	CARBON	470K	5%	1/6W
R206	1-247-855-00	CARBON	10K	5%	1/6W
R207	1-247-871-00	CARBON	47K	5%	1/6W
R208	1-247-871-00	CARBON	47K	5%	1/6W
R209	1-247-871-00	CARBON	47K	5%	1/6W
R210	1-247-855-00	CARBON	10K	5%	1/6W
R211	1-247-855-00	CARBON	10K	5%	1/6W
R212	1-247-855-00	CARBON	10K	5%	1/6W
R213	1-247-855-00	CARBON	10K	5%	1/6W
R214	1-247-855-00	CARBON	10K	5%	1/6W
R215	1-247-855-00	CARBON	10K	5%	1/6W
R216	1-247-855-00	CARBON	10K	5%	1/6W
R217	1-247-855-00	CARBON	10K	5%	1/6W
R218	1-247-855-00	CARBON	10K	5%	1/6W
R219	1-247-855-00	CARBON	10K	5%	1/6W
R220	1-247-855-00	CARBON	10K	5%	1/6W
R221	1-247-855-00	CARBON	10K	5%	1/6W
R222	1-247-855-00	CARBON	10K	5%	1/6W
R223	1-247-855-00	CARBON	10K	5%	1/6W
R224	1-247-855-00	CARBON	10K	5%	1/6W
R225	1-247-895-00	CARBON	470K	5%	1/6W
R226	1-247-895-00	CARBON	470K	5%	1/6W
R227	1-247-881-00	CARBON	120K	5%	1/6W
R228	1-247-827-00	CARBON	680	5%	1/6W
R229	1-247-881-00	CARBON	120K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R230	1-247-903-00	CARBON	1M	5%	1/6W
R231	1-247-855-00	CARBON	10K	5%	1/6W
R232	1-247-803-00	CARBON	68	5%	1/6W
R234	1-247-831-00	CARBON	1K	5%	1/6W
R233	1-247-795-00	CARBON	33	5%	1/6W
R235	1-247-855-00	CARBON	10K	5%	1/6W
R236	1-247-837-00	CARBON	1.8K	5%	1/6W
R237	1-247-831-00	CARBON	1K	5%	1/6W
R238	1-247-843-00	CARBON	3.3K	5%	1/6W
R239	1-247-855-00	CARBON	10K	5%	1/6W
R240	1-247-855-00	CARBON	10K	5%	1/6W
RV1	1-230-042-00	RES, VAR, SLIDE 20K (VOLUME)			
RV2	1-230-065-00	RES, VAR, CARBON 100K (FINE TUNING)			
S1	1-554-462-00	SWITCH, SLIDE (SENS)			
S2	1-553-989-00	SWITCH, SLIDE (AM MODE)			
S3	1-554-078-00	SWITCH, SLIDE (TONE)			
S5	1-553-510-00	SWITCH, SLIDE (MAIN POWER)			
S6	1-554-371-00	SWITCH, TACT (TIME SET)			
S7	1-554-604-00	SWITCH, RUBBER KEY (COUNTER KEYS)			
S8	1-553-977-00	SWITCH, SLIDE (9KHz-10KHz)			
SP	1-502-631-00	SPEAKER			
T1	1-459-458-00	COIL (WITH CORE)			
T3	1-404-126-00	IFT (SMALL TYPE)			
T4	1-404-130-00	TRANSFORMER, DISCRI			
T5	1-404-131-00	TRANSFORMER, DISCRI			
T6	1-404-127-00	IFT (SMALL TYPE)			
T7	1-426-136-00	TRANSFORMER, HF			
T8	1-404-448-00	TRANSFORMER, IF			
T9	1-404-191-00	TRANSFORMER, IF			
T10	1-404-447-00	(ME:NOT USED)...TRANSFORMER, IF			
T11	1-406-052-00	COIL (OSC)			
X1	1-567-108-00	VIBRATOR, CRYSTAL			
X2	1-567-105-00	(ME:NOT USED)...OSCILLATOR, CERAMIC			
X3	1-567-109-00	VIBRATOR, CRYSTAL			
XF1	1-527-372-00	FILTER, CRYSTAL			

For Service Manuals Contact
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UPD···: μPD···